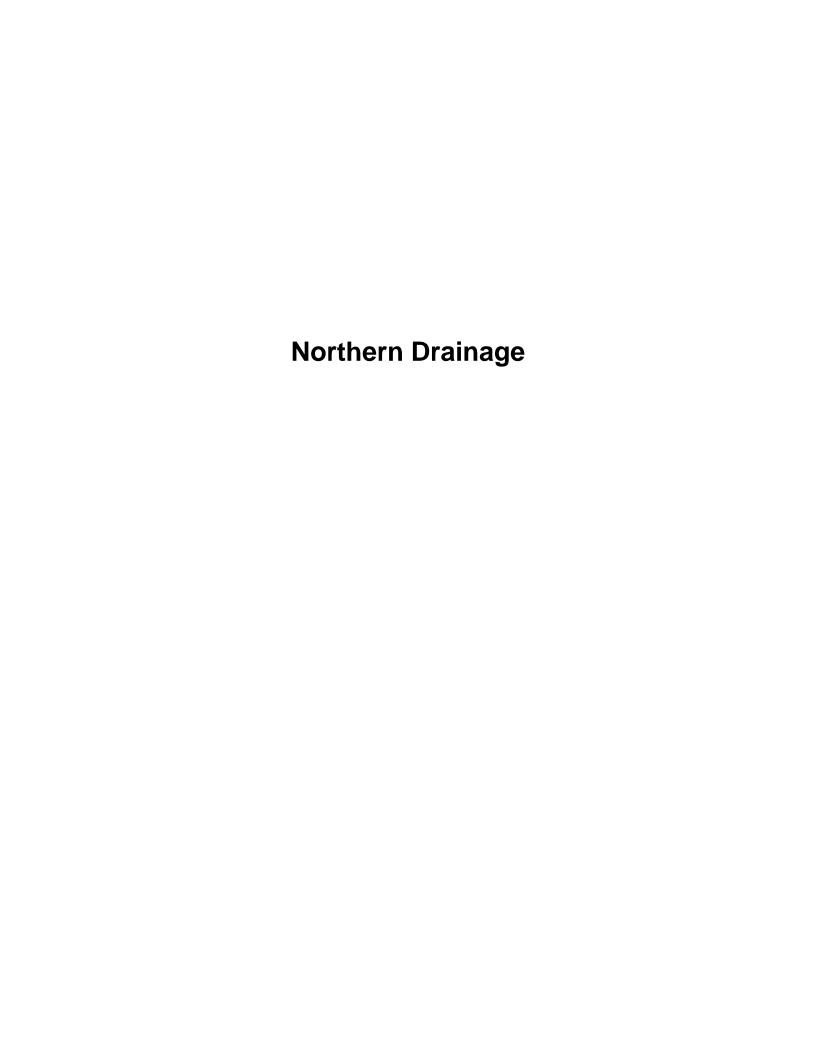
Stantec

AMHERST ISLAND WIND ENERGY PROJECT WATER ASSESSMENT AND WATER BODY REPORT

Appendix D

Field Notes





RAPID ASSESSMENT FORM FOR AQUATIC HABITAT

Northern	braina
C HABITAT)

Stantec
Project Amburst Island Project # 160960595
Station # Field Staff KE + RP
Photos Taken y Date May 17 2011
GPS Coordinates Time 10:20 Am
Descriptive Location West of Stella, along Front Rd
Water Quality
Dissolved Oxygen (mg/L) 10.48 pH 7.82 Conductivity (μS/cm) 247
Water Temperature (°C) 9, 69 Air Temperature (°C) 70
Weather conditions in previous 24 hrs 1001, cloudy a rain 10th of rain
Watercourse Dimensions & Morphology
Mean Watercourse Width (m) Maximum Pool Depth (cm) Mean Bankfull Width (m) Mean Water Depth (cm)
Mean Bankfull Width 3 (m) Mean Water Depth 20 (cm) ————————————————————————————————————
Evidence of eroding banks, Comments on bank stability
no, grass liked, probably seasonal NB. Us of roc
Substrate - Upstream (% cover)
BedrockSiltBoulderClayCobble
MuckO GravelMarlSandDetritus
Substrate - Downstream (% cover)
Bedrock Silt Boulder Clay Cobble
MuckGravelMarlSandDetritus
In-water Cover
Cover Types Present (circle): Undercut Banks Deep Pool Vascular Plants
Overhanging Vegetation Woody Debris Boulder Other
Riparian Zone
Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional)
Upstream almost 0% cover few trees along mod rear a
Downstream
Adjacent Land Use
Upstream 0 Downstream 0
Downspealing 5
Fish Habitat Potential
Critical Habitat (spawning or nursery areas, groundwater upwellings)
Upstream NO
Downstream
Upstream seasonal nost likely dry in summer
Downstream
Note any fish observations Bandla Kulifish + pumptinsled.
Other Habitat Notes, Incidental Wildlife Observations, etc.
-diffuse surficial drainage where us solits forther west
(photos (c + 1d), not wB.
Field Notes Authored by Field Notes QA/QCed by Page of



Stantec Consulting Ltd - Electrofishing Record and Catch Results

Project Number	14096	0595		Station	Number			
Project Name	Antherst	- Island	·	Pass N	lo. (if applicab	le) 1		
Project manage					yyymmdd):	May 1	7 4h 20	111
Descriptive Loc	ation just	west of	f Stel	lla on) .	, ,		
UTM coordinate	es		easting			northing	zone	
Fishing Method Sampling Metho		even	drabital t	Boat tra	Unit Model/I	Make SM (4)	n roof	po .
Effort (Electrofis Settings		975.	Number of Ne		_	Number of Anode	s:	-
Frequency (Hz) Station Information		Voltage (volts)	350	Current (Amps)		Power (Watts)	12	
	m Surveyed (m)	40 m						
Station Charact			Range		Average:			
		Depth (m):		- 40cm	Average:	20		
	pH 7.	0 0		Dissolved C	exygen (mg/L)	10.78		
Catch Data Species	Number of Fish							
Catch Data Species		<u> </u>		Dissolved C	Number of			
	Number of Fish	<u> </u>						
Species A KIIRSM	Number of Fish	<u> </u>						
	Number of Fish	<u> </u>						
Species A KIIRSM	Number of Fish							
Species A KIIRSM	Number of Fish							
Species A KIIRSM	Number of Fish							
Species A KIIRSM	Number of Fish							
Species A KIIRSM	Number of Fish	X						
Species A KIIRSM	Number of Fish							
Species A KIIIRSM	Number of Fish							
Species M. Klißsh Planded	Number of Fish	eet? Y/N						
Species M. Klißsh P. Lah Led	Number of Fish	eet? Y/N			Number of			



RAPID ASSESSMENT FORM FOR AQUATIC HABITAT

13)	1116
9	XWE
	093

	Project Ambust 18 and Project # 1609100 595 WA
	Station # 3 Field Staff
	Photos Taken Y Date Mou 17 2011
	GPS Coordinates Time 1:20
	Descriptive Location front Rd , 750 m reat of Emerals
	The state of the s
	Water Quality
	Dissolved Oxygen (mg/L) PH SI Conductivity (µS/cm) 200
	Water Temperature (°C) Air Temperature (°C) 12
	Weather conditions in previous 24 hrs Cloudy & rain
	Watercourse Dimensions & Morphology
	Mean Watercourse Width 30-50 (m) Maximum Pool Depth (cm)
	Mean Bankfull Width 3 (m) Mean Water Depth (cm)
	% Riffle% Pool% Run
	Evidence of eroding banks, Comments on bank stability
	cows trample 4hours watercourse
XWB	Substrate – Upstream (% cover)
100	O Bedrock O Silt Boulder Clay Cobble
	MuckGravelMarlSandDetritus
	Substrate - Downstream (% cover)
NB 1	SD Bedrock 10 Silt Boulder Clay O Cobble
rderaut	Muck 20 Gravel Marl 10 Sand Detritus
banks	- 4 7 XVA
	In-water Cover ol/S
	Cover Types Present (circle): Undercut Banks Deep Pool Vascular Plants
	Overhanging Vegetation Woody Debris Boulder Other
	Riparian Zone
	Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional)
	Upstream (0°/0
	Downstream 40% asha liac
	Adjacent Land Use
	Upstream cou pastive
	Downstream_cottosco
	Fish Habitat Potential
	Critical Habitat (spawning or nursery areas, groundwater upwellings)
	Upstream 1000 miles of horse o
	Downstream 11011C WISCVED
	Migratory Obstructions (seasonal, permanent)
	Upstream Ceasional
	Downstream Seasonal?
	Note any fish observations none
	not hished are to min mater levels.
Aule	Other Habitat Notes, Incidental Wildlife Observations, etc.
mo uy >	cow pasture, no detried channel, seasonal - xnis
B dls	-defined channel, possibly seasonal flow-us.
-	
	Field Notes Authored by Field Notes QA/QCed by Page of
	Field Notes Authored by Page of



WIND FARM WATERBODY RAPID ASSESSMENT FORM 55 WB

Nabilize V	S/cm)(ci	m) m)
Conductivity (µ emperature (°C) N 480 N 48	S/cm)(ci	m) m)
Conductivity (µ emperature (°C) num Pool Depth	S/cm)(ci	m) m)
Conductivity (µ emperature (°C) num Pool Depth Water Depth %	S/cm)(ci	m) m)
Conductivity (µ emperature (°C) num Pool Depth Water Depth %	S/cm)(ci	m) m)
Conductivity (µ emperature (°C) num Pool Depth Water Depth %	S/cm)(ci	m) m)
num Pool Depth	(ci (ci & Run	m) m)
num Pool Depth	(ci (ci & Run	m) m)
num Pool Depth	(ci (ci & Run	m) m)
num Pool Depth	(ci 6 Run	m) m)
Water Depth%	(c 6 Run	m)
Water Depth%	(c 6 Run	m)
stabilize V	n NC	
Nabilize V	noles	% Fla
stabilize V		
		Seem har madesolvi
^/	1	
_Sand	Silt	Muck
_Clay	Mari \	Detritus
etation, mature or	Barly succession	nal)
upwellings)		
		ried Tile
Gracead Cum	Aquatic Vec	Dry
Grassed Swa	rqualic vey	UI <u>y_</u>
_ Grassed Swa _ Dominated by	conse	
_ Dominated by A		
	Grassed Swa Dominated by A s, etc.	Grassed Swale Bu Dominated by Aquatic Veg s, etc.



WIND FARM WATERBODY RAPID ASSESSMENT FORM NWB

Station #	Conductivit Air Temperature (°C Maximum Pool Dep Mean Water Depth Pool stability Sand Clay Banks Deep Pool	y (μS/cm) thSilt_Marl Watercress	_(cm) _(cm) % Flat
Photos	Field Staff Time 14.58 N Conductivit Air Temperature (°C Maximum Pool Depth Mean Water Depth Pool stability Sand Clay Clay Banks Deep Pool	y (μS/cm) thSilt	_(cm) _(cm) % Flat Muck Detritus
Weather conditions in previous 24 hrs GPS Coordinates (Zone) Descriptive Location Water Quality Dissolved Oxygen (mg/L) Water Temperature (°C) Time in situ measurements taken Watercourse Dimensions & Morphology Mean Watercourse Width Mean Bankfull Width Riffle Evidence of eroding banks, Comments on bank Substrate (% cover) Bedrock Boulder Grave In-water Cover Cover Types Present (circle): Undercut E Overhanging Vegetation Woody Debris Riparian Zone Riparian Zone Riparian Cover (% of watercourse shaded, dome	Time	y (µS/cm) th Silt Marl Watercress	_(cm) _(cm)
Water Quality Dissolved Oxygen (mg/L)	Conductivit Air Temperature (°C Maximum Pool Deptinemen Water Depth Pool stability Sand Clay Clay Banks Deep Pool	y (μS/cm) th Silt Watercress	_(cm) _(cm)
GPS Coordinates (Zone) F E 364 Descriptive Location Water Quality Dissolved Oxygen (mg/L)	Conductivit Air Temperature (°C Maximum Pool Dep Mean Water Depth Pool stability Sand Clay Banks Deep Pool	y (μS/cm) th Silt Watercress	_(cm) _(cm)
Water Quality Dissolved Oxygen (mg/L)	Conductivit Air Temperature (°C Maximum Pool Dep Mean Water Depth Pool stability Sand Clay Banks Deep Pool	y (μS/cm) th Silt Watercress	_(cm) _(cm)
Water Quality Dissolved Oxygen (mg/L)	Maximum Pool Dep Mean Water Depth_Pool stability Sand_Clay_ Banks Deep Pool	th	_(cm) _(cm) % Flat Muck Detritus
Dissolved Oxygen (mg/L)pH, Water Temperature (°C) Time in situ measurements taken Watercourse Dimensions & Morphology Mean Watercourse Width(m) Mean Bankfull Width(m)% Riffle(m)% Riffle	Maximum Pool Dep Mean Water Depth_Pool stability Sand_Clay_ Banks Deep Pool	th	_(cm) _(cm) % Flat Muck Detritus
Dissolved Oxygen (mg/L)pH, Water Temperature (°C) Time in situ measurements taken Watercourse Dimensions & Morphology Mean Watercourse Width(m) Mean Bankfull Width(m)% Riffle	Maximum Pool Dep Mean Water Depth_Pool stability Sand_Clay_ Banks Deep Pool	th	_(cm) _(cm) % Flat Muck Detritus
Dissolved Oxygen (mg/L)pH, Water Temperature (°C) Time in situ measurements taken Watercourse Dimensions & Morphology Mean Watercourse Width(m) Mean Bankfull Width(m)% Riffle(m)% Riffle	Maximum Pool Dep Mean Water Depth_Pool stability Sand_Clay_ Banks Deep Pool	th	_(cm) _(cm) % Flat Muck Detritus
Water Temperature (°C) Time in situ measurements taken Watercourse Dimensions & Morphology Mean Watercourse Width (m) Mean Bankfull Width (m) — % Riffle Evidence of eroding banks, Comments on bank Substrate (% cover) — Bedrock Cobble — Boulder Gravel In-water Cover Cover Types Present (circle): Undercut Education Overhanging Vegetation Woody Debris Riparian Zone Riparian Cover (% of watercourse shaded, dome	Maximum Pool Dep Mean Water Depth_Pool stability Sand_Clay_ Banks Deep Pool	th	_(cm) _(cm) % Fla Muck Detritus
Watercourse Dimensions & Morphology Mean Watercourse Width (m) Mean Bankfull Width (m) % Riffle (m) % Riffle (m) Substrate (% cover) Bedrock (cover) Bedrock (Grave) In-water Cover Cover Types Present (circle): Undercut E Overhanging Vegetation (woody Debris) Riparian Zone Riparian Cover (% of watercourse shaded, dome	Maximum Pool Depriment Water Depth_Pool stability Sand_Clay_ Clay_ Banks Deep Pool	th	_(cm) _(cm) % Flat Muck Detritus
Watercourse Dimensions & Morphology Mean Watercourse Width	Mean Water Depth_Pool stability Sand_Clay_ Banks Deep Pool	% RunSiltMarl	_(cm) % Flat Muck Detritus
Mean Watercourse Width	Mean Water Depth_Pool stability Sand_Clay_ Banks Deep Pool	% RunSiltMarl	_(cm) % Fla Muck Detritus
Mean Watercourse Width	Mean Water Depth_Pool stability Sand_Clay_ Banks Deep Pool	% RunSiltMarl	_(cm) % Fla Muck Detritus
Mean Bankfull Width	Mean Water Depth_Pool stability Sand_Clay_ Banks Deep Pool	% RunSiltMarl	_(cm) % Fla Muck Detritus
% Riffle % I Evidence of eroding banks, Comments on bank Substrate (% cover)	Sand Clay Sanks Deep Pool	% Run Silt Marl Watercress	
Substrate (% cover) Bedrock Boulder Grave In-water Cover Cover Types Present (circle): Undercut E Overhanging Vegetation Woody Debris Riparian Zone Riparian Cover (% of watercourse shaded, dom	Sand Clay Deep Pool	Silt	Muck Detritus
Substrate (% cover) BedrockCobbleBoulderGravet In-water Cover Cover Types Present (circle): Undercut E Overhanging Vegetation Woody Debris Riparian Zone Riparian Cover (% of watercourse shaded, dom	SandClay	Mari Watercress	Detritus
Bedrock Cobble Boulder Gravel In-water Cover Cover Types Present (circle): Undercut E Overhanging Vegetation Woody Debris Riparian Zone Riparian Cover (% of watercourse shaded, dom	Clay Banks Deep Pool	Mari Watercress	Detritus
Bedrock Cobble Boulder Gravel In-water Cover Cover Types Present (circle): Undercut E Overhanging Vegetation Woody Debris Riparian Zone Riparian Cover (% of watercourse shaded, dom	Clay Banks Deep Pool	Mari Watercress	Detritus
In-water Cover Cover Types Present (circle): Undercut E Overhanging Vegetation Woody Debris Riparian Zone Riparian Cover (% of watercourse shaded, dom	Clay Banks Deep Pool	Mari Watercress	Detritus
In-water Cover Cover Types Present (circle): Undercut E Overhanging Vegetation Woody Debris Riparian Zone Riparian Cover (% of watercourse shaded, dom	Banks Deep Pool	Watercress	
In-water Cover Cover Types Present (circle): Undercut E Overhanging Vegetation Woody Debris Riparian Zone Riparian Cover (% of watercourse shaded, dom	Banks Deep Pool	Watercress	
	inant vegetation, mature	or early success	sional)
Adjacent Land Use			
79			
Fish Habitat Potential			
Critical Habitat (spawning or nursery areas, gro	unawater upweilings)		
Minutes Obstaction (of social component)			
Migratory Obstructions (seasonal, permanent)			
Note any fish shape visions			
Note any fish observations			
Waterbody Notes			
Natural Watercourse Trapezoidal Chan	nel Grassed	Swale	Buried Tile
Surficial Drainage (i.e. furrows) Dugout F	Pond Dominated	by Aquatic Veg	Dry_/
		_,,	
Other Habitat Notes, Incidental, Wildlife Obse	ervations, etc.		
low lung area Chough		hold	
	1	116	M-TYNEET TO III-
Field Notes Authored by Field N			



WIND FAR

M WATERBODY	Northern	brainage 5	7 00
M WATERBODY	RAPID ASSES	SSMENT FORM	WB

		Desire	Allows A	whalt 1	eland	
Station #		Projec	t Name	GIO O TO C	SUM	
Watercourse Name		Projec	T # ((0))	9100895		
Photos 59-64	AND SECTION OF THE		Staff Kall			
Date Aug 15 2012	Alle Avelor III	Time.	14:25			
Weather conditions in previous 24 h	rs	0/0				
GPS Coordinates (Zone) 18T			N ^c	189 209 6	Datum	
Descriptive Location						
			divi			
Water Quality		1	000			
Dissolved Oxygen (mg/L)	_ pH,		_ Conductiv	/ity (μS/cm)		2
Water Temperature (°C)		X Air Te		°C)		
Time in situ measurements taken				The Market State of		
Watercourse Dimensions & Morpi	hology					
Mean Watercourse Width	(m)	Maxin	num Pool De	enth	(cm)	
Mean Bankfull Width	_(m)	Mean	Water Denti		(cm)	
Mean Watercourse Width Mean Bankfull Width % Riffle	_(''')	Pool	Water Depu	% Run	_(011)	% Fla
Evidence of eroding banks, Comme	nte on bank	etability				/0 F 1Q
Evidence of eroding banks, comme	nis on bank	Stability				
Substrate (% cover)						
Bedrock 70	Cobble ·	30	Sand	Silt_ Marl	Mu	ick
Boulder		N TENL OF	Clay	Marl		tritus
Riparian Zone Riparian Cover (% of watercourse s	haded, domi	inant vege	etation, matu	re or early succe	ssional)	
Adjacent Land Use						
Fish Makhat Patastial	/					
Fish Habitat Potential Critical Habitat (spawning or nurse)	areas, grou	undwater	upwellings)			
Migratory Obstructions (seasonal, p	ermanent)					
Note any fish observations		n essi Mariantes				
Waterbody Notes						
Natural Watercourse Trape:	zoidal Chani	nel	_ Grassed	d Swale	Buried Tile	
Surficial Drainage (i.e. furrows)	_ Dugout P	ond	_ Dominate	d by Aquatic Veg	Dr	y_
Other Habitat Notes, Incidental W	ildlife Obse	rvations,	etc	A TANKE		

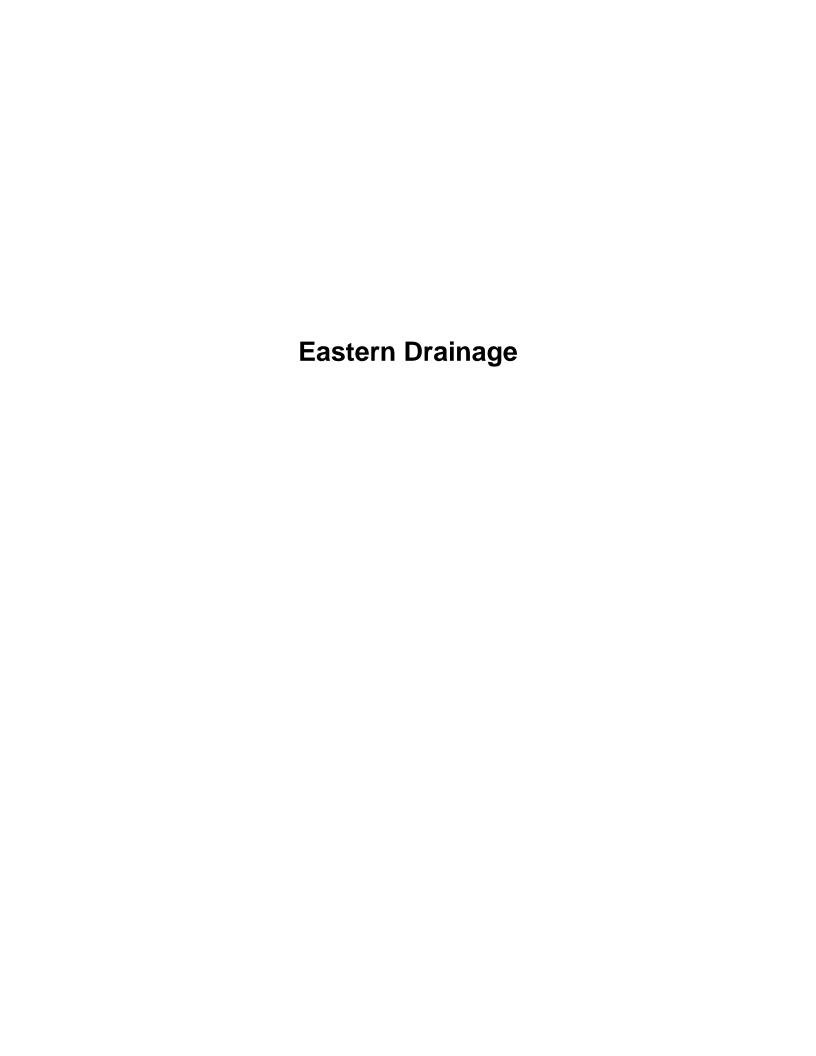
						R/S III
					N VII (ME)	
Field Notes Authored by	Field N	otes QA/QCe	d by			



Stantec	LOSIVIENT	FORM FOR AQ	OATIC HABIT	41(31)
oject AMheust Islandian # 31.32 + 3	and	Project # 16 Field Staff	096059	X
otos Taken PS Coordinates escriptive Location	of trop	Date Time	19 2011 3:30 4 + 0 + 3	tella
iter Quality	South	at in a sec	4	
ater Catality ssolved Oxygen (mg/L) ater Temperature (°C) eather conditions in previous 24	pH _.	Condu Air Temperatui	uctivity (μS/cm) _ re (°C)	\neq
atercourse Dimensions & Mo			/	
ean Watercourse Widthean Bankfull Width % Riffle	(m) % Pool	Mean Water De	epth	(cm) (cm) Flat
idence of eroding banks, Comn	nents on bank	stability	/-	
bstrate – Upstream (% cover)				
Bedrock Silt	'	Boulder	Clay	Cobble
Muck Grav	vel	Marl	Sand	Detritus
ostrate – Downstream (% cov Bedrock Silt	ver)	Boulder	Clay	Cobble
MuckGrav	vel	Marl	Sand	Detritus
vater Cover				
ver Types Present (circle): Overhanging Vegetation	Undercut E Woody Del			Plants
parian Zone parian Cover (% of watercourse	shaded dom	inant vegetation m	ature or early suc	reesional)
Upstream	yonaded, donn	mant vegetation,	Attire or early suc	
Downstream jacent Land Use				
Upstream_				
Downstream	A-Maria III			
h Habitat Potential				
ical Habitat (spawning or nurse Upstream	ery areas, grou	undwater upwelling	s) (
Downstream				
	permanent)		**************************************	
				<u> </u>

90	Northe
JA .	RAPID ASSESSMENT FORM FOR AQUATIC HABIT
Stantec	

Northern brown	rage
RAPID ASSESSMENT FORM FOR AQUATIC HABITAT	WB
Stantec	INB
Project Ambust 18 and Project # 140960 595	
Station # Field Staff KE + RY	
Photos Taken Date May 18 2011	
GPS Coordinates / Time / Time	
Descriptive Location and Rol, 200 M West of Marshall	
Water Quality	
Dissolved Oxygen (mg/L) pH Conductivity (μS/cm)	
Water Temperature (°C) Air Temperature (°C) Weather conditions in previous 24 hrs	
Watercourse Dimensions & Morphology	
Mean Watercourse Width 15-1 (m) Maximum Pool Depth (cm)	
Mean Bankfull Width 2 (m) Mean Water Depth 6 - 10 (cm)	
% Riffle% Pool% Flat	
Evidence of eroding banks, comments on bank stability	
Substrate – Upstream (% cover)	
BedrockSiltBoulderClayCobble	
MuckGravelMarlSandDetritus	
Substrate – Downstream (% cover)	
BedrockSiltBoulderClayCobble	
MuckGravelMarlSandDetritus	
In-water Cover	
Cover Types Present (circle): Undercut Banks Deep Pool Vascular Plants Overhanging Vegetation Woody Debris Boulder Other	
Riparian Zone	
Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional)	
Upstream Upstream	
Downstream	
Adjacent Land Use	
Upstream	
Downstream	
Fish Habitat Potential	
Critical Habitat (spawning or nursery areas, groundwater upwellings) Upstream	
Downstream	
Migratory Obstructions (seasonal, permanent)	
Upstream	
Downstream	
Note any fish observations	
Other Habitat Notes, Incidental Wildlife Observations, etc.	1
though humons farther up (scaponal)	ALOUP
-dls -18B-defined channel Epretably spaconal)	
Field Notes Authored by Field Notes QA/QCed by Page of	
Field Notes Authored by Featured Charnel Epretaibly seasonal) Field Notes Authored by Page 1 of 1 - no access dis so not have min water us due	0





eastern gracina
RAPID ASSESSMENT FORM FOR AQUATIC HABITAT (30)
Stantec
Project AMMUNT Sland Station # 50 Photos Taken Y GPS Coordinates Descriptive Location CMSSIGS & RIFCHE FORM & Front Rol
Water Quality Dissolved Oxygen (mg/L) 7,1 4 pH 8,01 Conductivity (μS/cm) 303 Water Temperature (°C) 26,12 Air Temperature (°C) 30° Weather conditions in previous 24 hrs Cosol 24 Cosol 24 Cosol 24 Cosol 24 Cosol 24 Cosol 25 Cosol 24 Cosol 24 Cosol 25 Coso
Watercourse Dimensions & Morphology Mean Watercourse Width (m) Maximum Pool Depth (cm) Mean Bankfull Width (m) Mean Water Depth (cm) Physical Riffle (m) Mean Water Depth (cm) Riffle (m) Mean Water Depth (cm) Physical Riffle (m) Mean Water Depth (cm) Physical Riffle (m) Mean Water Depth (cm) Physical Riffle (m) Maximum Pool Depth (cm) Replace (m) Mean Water Depth (cm) Physical Riffle (m) Mean Water Depth (m) Physical Riffle (m) Physical Riffle (m) Mean Water Depth (m) Physical Riffle (m) Physical Riffle (m) Physical Riffle (m) Physical Riffle (m)
Substrate - Upstream (% cover) 70 Bedrock 30 Silt Boulder Clay Cobble Muck Gravel Marl Sand Detritus
Substrate - Downstream (% cover) 30 Bedrock
In-water Cover Cover Types Present (circle): Undercut Banks Deep Pool Vascular Plants Overhanging Vegetation Woody Debris Boulder Other
Riparian Zone Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional) Upstream Downstream Upstream Upstream Downstream
Fish Habitat Potential Critical Habitat (spawning or nursery areas, groundwater upwellings) Upstream Downstream
Migratory Obstructions (seasonal, permanent) Upstream Downstream Note any fish observations
none observed
Other Habitat Notes, Incidental Wildlife Observations, etc. -US - shallow survival arange through fireus in field, Small peol & which (femporary) xwB -d/s - no access Field Notes Authored by Field Notes QA/QCed by Page of



WIND FARM WATERBODY RAPID ASSESSMENT FORM WB

Station # 58		Project Name	haust 1	sland
Watercourse Name		Project # \ 609 (nsac	3100101
Photos 5 3 - \$		Field Staff Kak		
Date Aug 5.80/2		Time 13 50		
Weather conditions in previous		11110		
GPS Coordinates (Zone) \8	F 368	(3) N 4	894016	Datum
Descriptive Location				
3000NP4110 20044011				
Water Quality		1 des		
Dissolved Oxygen (mg/L)	pH_	Conductivity	(μS/cm)	
Water Temperature (°C)		Air Temperature (°C)		
Time in situ measurements take	en			
Watercourse Dimensions & M	lorphology	1 11 11/1		
Mean Watercourse Width	(m)	Maximum Pool Depth		_(cm)
Mean Bankfull Width5	(m)			(cm)
% Riffle	% P			% Fla
Evidence of eroding banks, Cor	nments on bank	stability		
Substrate (% cover)				
Bedrock	Cobble	Sand	Silt	Muck
Boulder	Gravel			Detritus
Overhanging Vegetation W Riparian Zone Riparian Cover (% of watercour \S(1) \S(1) \S(2) \S(2) Adiacent Land Use			or early succes	sional)
15% grases a	adenvod	16467		
Adjacent Land Use	astre			
		21 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Fish Habitat Potential				
Critical Habitat (spawning or nu	rsery areas, grou	ndwater upwellings)		
Migratory Obstructions (season	al permanant)			
Note any fish observations				
Waterbody Notes				
Natural Watercourse Ti Surficial Drainage (i.e. furrows)	rapezoidal Chann	el Grassed S	wale	Buried Tile
Surficial Drainage (i.e. furrows)	Dugout Po	ond Dominated b	y Aquatic Veg_	Dry /
Other Habitat Notes, Incident	al Wildlife Obse	rvations, etc.		
		THE BUILDING WILLIAM STREET		
Eigld Notes Authored by	Claid No.	ton OA/OCod by		
Field Notes Authored by	rield No	ites cavaced by		



RAPID ASSESSMENT FORM FOR AQUATIC HABITAT

Eastern	brau	aje
Eastern ATIC HABITA	т (9)	WR

Stantec

Project Amberst Island Station # Project # 160960595 Field Staff Kt + RP Date May 18 2011 Time 1 Descriptive Location 3rd watercourse north along 40ff Rd
Water Quality Dissolved Oxygen (mg/L) 9,63 pH 7,94 Conductivity (μS/cm) 143 Water Temperature (°C) 13.110 Air Temperature (°C) 13.110 Weather conditions in previous 24 hrs Cold Cauch
Watercourse Dimensions & Morphology Mean Watercourse Width (m) Maximum Pool Depth (cm) Mean Bankfull Width (m) Mean Water Depth (cm) Mean Water Depth (cm) Riffle (m) Mean Water Depth (cm) Wean Water Depth (cm) Flat Evidence of eroding banks, Comments on bank stability
Substrate - Upstream (% cover) 20 Bedrock Silt Muck Gravel Marl Sand Obline S
Substrate - Downstream (% cover) SO Bedrock 15 Silt Boulder Clay Cobble Muck 35 Gravel Marl Sand Detritus
In-water Cover Cover Types Present (circle): Undercut Banks Deep Pool Vascular Plants Overhanging Vegetation Woody Debris Boulder Other
Riparian Zone Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional) Upstream Downstream Upstream Downstream Downstream
Fish Habitat Potential Critical Habitat (spawning or nursery areas, groundwater upwellings) Upstream Downstream Migratory Obstructions (seasonal, permanent) Upstream Downstream Dow
Other Habitat Notes, Incidental Wildlife Observations, etc. -US - Shallow, diffuse statement drains toward coffast culve -Wendown it a barner exists clarke (no access) Field Notes Authored by Field Notes QA/QCed by Page for

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T	7	
3		

Page ___of Stantec Consulting Ltd - Electrofishing Record and Catch Results

Project Number	16096	0595		Station	n Number	9	
Project Name	Amherst I	sland win	T	Pass N	No. (if applicab	ole) /	
Project manage		aland				2011/05/18	
Descriptive Loca		N	Front him		Fillson	+ Teffrey	Propertio
			aver 40 Ft R	end	Transition of the second		
UTM coordinate	s		easting			northing	zone
Fishing Method	(circle one):	Backpacl	Boa	t	Unit Model/N	Make LR-24	1 Smith Root
Sampling Metho	od (circle one):	even	habital	tra	insect	spot	
Effort (Electrofis	hing Seconds):	152	Number of Nette	rs: 1	_	Number of Anodes:	
Frequency (Hz)	70	Voltage (volts)	OO Cur	rent (Amps)		Power (Watts)	/
Station Informa	ntion						
Length of Stream	n Surveyed (m)	60					
Station Characte	eristics:	Width (m):	Range - 3		Average:	1.5	
		Depth (m):	Range O.10	050	Average:	0.30	
Catch Data	and the second	74			exygen (mg/L)		
Species	Number of Fish		Spe	cies	Number of i	Fish	
Fatherd Minho							
Banded Millif	157 4						
	nts on Separate She					a D	
Field Staff:	KETR				Notes By:	KT	
						(Station [Diagram on Back)



Eastern	Srainag 29 XIVI
HABITAT /	29
	YXU

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1 . 1 .			
ust wand	Field Staff L	6096069S	
perty po	eperty, w	aterons	2
	751.		1047
(mg/L) 7/49 e (°C) 89 s in previous 24 hrs	, Air Temperatu	re (°C)	189
	Maximum Poo Mean Water D DI% Run	epth	(cm) (cm) Flat
eam (% cover)			
Silt Gravel	Boulder	Clay Sand	Cobble Detritus
stream (% cover)			0.111
Silt Gravel	Bounder	Sand	Cobble Detritus
SAFE TO SEE THE SECOND			lants
of watercourse shaded, on	dominant vegetation, n	nature or early succ	sessional)
sheep part	we		
none mosey	groundwater upwelling	gs)	
ons (seasonal, permane	D)		
vations none of	served, too	2 little u	ater
	(mg/L) 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Field Staff Date Move Pool Air Temperature Staff Date Move Pool Air Temperature Pool Mean Water Description Maximum Pool Mean Water Description Mean Water Description Maximum Pool Mean Water Description Maximum Pool Mean Water Description Maximum Pool Mean Water Description Mean Water Description Maximum Pool Mean Water Description Maximum Pool Mean Water Description Maximum Pool Mean Water Description Mean Water Description Maximum Pool Mean Water Description Mean Water Description Maximum Pool Mean Water Description Maximum Pool Mean Water Description Mean Water Description Maximum Pool Mean Water Description Mean Water Description Maximum Pool Mean Water Description	Field Staff Date Date Dat

due to undersized & slightly sunken culvert. Field Notes Authored by KE
-d/S No dehred channel, subject drawage
Inw Wins area in pactive.



RAPID ASSESSMENT FORM FOR AQUATIC HABITAT & W.

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31	11.		L.

Project	Project # 1009 Field Staff Date May Time 9:48	up sar	I over
Water Quality Dissolved Oxygen (mg/L) 4.63 pt Water Temperature (°C) 12.5 Weather conditions in previous 24 hrs	HConductivit Air Temperature (°C	ty (μS/cm){C}	202
Watercourse Dimensions & Morphology Mean Watercourse Width @ (m) Mean Bankfull Width (m)	Maximum Pool Dep Mean Water Depth_ % Run k stability		(cm) (cm) Flat
Substrate - Upstream (% cover) SO Bedrock 3() Silt Muck Gravel	Boulder Marl	Clay Sand/	Cobble Detritus
Substrate - Downstream (% cover) 50 Bedrock	Boulder Marl	Clay Sand	Cobble Detritus
In-water Cover Cover Types Present (circle): Overhanging Vegetation Undercut Woody December 1		Vascular P Other	lants
Downstream O%	ninant vegetation, mature	e or early succ	cessional)
Adjacent Land Use Upstream fallow field Downstream fallow	a upodlot		01
Fish Habitat Potential Critical Habitat (spawning or nursery areas, groupstream	oundwater upwellings)		
Migratory Obstructions (seasonal, permanent) Upstream Sayona Downstream Downstream Note any fish observations	isolated pools er @ lake	(like	ly)
Other Habitat Notes, Incidental Wildlife Obs US - renched Channel I dis - shallow, Slightly Mar	privations, etc.	t through	h paotre
Field Notes Authored by KE Field I	Notes QA/QCed by	F	age of



Page 1 of 1 Stantec Consulting Ltd - Electrofishing Record and Catch Results

Project Number	Amher	st Islau	d	Station	Number	(8)	
Project Name	16096	0595		Pass No	o. (if applicat	ole) /	
Project manage				– Date (y)	yymmdd):	May 18	2011
Descriptive Loca	ation 2nd	water co	surk s	south	alm	e Ibuer	40 Foot
	Roa	d. (lef	Pery +	Filson	Drong	Lesty)	
UTM coordinate	es		_easting		1	northing	zone
Fishing Method	(circle one):	Backpa	ck Bo	at	Unit Model/	Make	
Sampling Metho	od (circle one):	even	hábitát	tran	sect	spot	
Effort (Electrofis	shing Seconds):	162	Number of Nett	ers:		Number of Anodes:	
Settings Frequency (Hz)	等75	Voltage (volts)	<u>400</u> cı	ırrent (Amps)		Power (Watts)	
Station Informa	ation						
Length of Stream	m Surveyed (m)	90 M					
Station Characte	eristics:	Width (m):	Range 2-	3	Average:	2.5	
		Depth (m):	Range 10	-40	Average:	20	
Water Clarity/Co Temperature	(°C)]Z	1 colowles	Water		tivity (uS/cm)	202	
Catch Data	pH <u>7,</u>	<u>(</u>		Dissolved Ox	kygen (mg/L)	_7.03	
Catch Data Species		Lips of E	Sr				
Catch Data Species	Number of Fish	(C	Sp		Number of		
	Number of Fish		Sr				
			Sp				
Species (illiNsh)	Number of Fish		Sp				
	Number of Fish		Sp				
Species (illiNsh)	Number of Fish		Sp				
Species (illiNsh)	Number of Fish		Sp				
Species (illiNsh)	Number of Fish		Sr				
Species (illiNsh)	Number of Fish		Sp				
Species (illiNsh)	Number of Fish		Sp				
Species (illiNsh)	Number of Fish		Sp				
Species (illiNsh)	Number of Fish		Sp				
Species (illiNsh)	Number of Fish		Sp				
Species (illifish aftead tadpole	Number of Fish	eet? Y/NO	Sp				
Species (illifish aftead tadpole	Number of Fish	eet? Y/V2	Sp			Fish	



RAPID ASSESSMENT FORM FOR AQUATIC HABITAT

Eastern	Drainage
	8 XWE

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С

Project Ament I and Project # 16 0960 595 Station # Brotos Taken Date May 19 201 GPS Coordinates Time 1 30 Descriptive Location Bitche property, watercourse fortlest
Water Quality Dissolved Oxygen (mg/L) 8.78 pH 7.97 Conductivity (μS/cm) 267 Water Temperature (°C) 34.63 Air Temperature (°C) 23 Weather conditions in previous 24 hrs 260
Watercourse Dimensions & Morphology Mean Watercourse Width 3.5 (m) Maximum Pool Depth 6 (cm) Mean Bankfull Width 9.5 (m) Mean Water Depth 6 (cm) ———————————————————————————————————
Substrate - Upstream (% cover) Bedrock So Silt Boulder Clay Cobble Muck Gravel Marl Sand 20 Detritus
Substrate - Downstream (% cover) Bedrock Silt Boulder Clay Cobble Muck Gravel Marl Sand Detritus
In-water Cover Cover Types Present (circle): Undercut Banks Deep Pool Vaccular Plants Overhanging Vegetation Woody Debris Boulder Other
Riparian Zone Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional) Upstream Downstream Upstream Upstream Downstream Downstream
Fish Habitat Potential Critical Habitat (spawning or nursery areas, groundwater upwellings) Upstream Downstream Migratory Obstructions (seasonal, permanent) Upstream Downstream Note any fish observations
Other Habitat Notes, Incidental Wildlife Observations, etc. - us - no debod dame terrestral grasses, ist temperary pointed over a culture of disservations of the postar drawage of the surface of the postar drawage of the postar of the postar drawage of the postar



WIND FARM WATERBODY RAPID ASSESSMENT FORM WAYE

59	_1,	· · · · · · · · · · · · · · · · · · ·	bosed le	la ad
Station #	Pro	ect Name 41M	NOVST 13	ana
Watercourse Name	Pro	d Staff Kold	0971	
Photos 50-52	Fiel	d Staff KAL	353	
Date Hug 15 8012		e 13 13		
Weather conditions in previous 24 hrs	01.91.00		186 3111.00	
GPS Coordinates (Zone) 18T E	36160	N 6	189 34600	atum
Descriptive Location				
Water Quality				
Dissolved Oxygen (mg/L)	pH	Conductivity	(μS/cm)	na po Evi w Harlie
Water Temperature (°C)		Temperature (°C)		
Time in situ measurements taken	7			
Watercourse Dimensions & Morpho				
Mean Watercourse Width(m)
	m) Mea	an Water Depth		m)
% Rìffle	% Pool		% Rup	% Flat
Evidence of eroding banks, Comment	s on bank stability		/	
Substrate (% cover)				
	Cobble	Sand	Silt	Muck
	Gravel	Glay	Siit Marl	Detritus
Bouldel	31 a VOI	yay	IVIGIT	Denitus
In-water Cover Cover Types Present (circle):	Indercut Banks	Deep Pool	Watercress	Aquatic Veg
Overhanging Vegetation Woody I		ilder Other_		
Riparian Zone Riparian Cover (% of watercourse sha	ided, dominant ve	getation, mature o	or early successio	nal)
Adjacent Land Use				
Fish Habitat Potential		and the same		
Critical Habitat (spawning or nursery a	reas, groundwate	er upwellings)		
Migratory Obstructions (seasonal, per	manent)			
Note and the characters				
Note any fish observations				
The state of the s				
Waterbody Notes				
Natural Watercourse Trapezo	idal Channel	Grassed St	vale Ru	ried Tile
Surficial Drainage (i.e. furrows)	Dugout Pond	Dominated by	v Aquatic Veg	Dry V
Sumicial Diamage (i.e. lumows)	Dagout i ona	Dominated b	y Aquatic vog	
Other Habitat Notes, Incidental Wild				
survail drainage	January 1	Just		
Field Notes Authored by	Field Notes QA/Q	Ced by		

	RAPID ASSESS	SMENT FORM FOR AQUA	Eastern brain
	TALIB AGGEGG	MENT TOTAL	MS
Stantec	1 1-1	^	- d/s
Project AM/N	erst 18lauro	Project # <u>160</u>	940595
Station # Photos Taken V		Field Staff <u>FF</u> Date Malu	18 2011
GPS Coordinates		Time 430	18 8-011
Descriptive Location	n adjacent	to Knoston No	stralist
preperty	along	Lower 040 ft.	Ra
Water Quality			
Dissolved Oxygen	(mg/L) 8.26	pH 7. 47 Conducti	ivity (µS/cm) 194
Nater Temperature	e (°C) 11.5	Air Temperature	
Neather conditions	in previous 24 hrs	rain	
Natercourse Dime			40
Mean Watercourse Mean Bankfull Wid% Riffle Evidence of eroding	Width & (n	m) Maximum Pool D m) Mean Water Dept	· · · · · · · · · · · · · · · · · · ·
Mean Watercourse Mean Bankfull Wid% Riffle Evidence of eroding	Width (n th (n g banks, Comments	m) Maximum Pool D m) Mean Water Dept s Pool % Run s on bank stability	th <u>20</u> (cm)
Mean Watercourse Mean Bankfull Wid% Riffle Evidence of erodingCOde Bubstrate - Upstra	width (next) (ne	m) Maximum Pool D m) Mean Water Dept s Pool % Run s on bank stability	th <u>20</u> (cm) <u>LOO</u> % Flat
Mean Watercourse Mean Bankfull Wid% Riffle Evidence of eroding	Width (n th (n g banks, Comments	m) Maximum Pool D m) Mean Water Dept pool % Run pon bank stability	th <u>20</u> (cm)
Mean Watercourse Mean Bankfull Wid% Riffle Evidence of eroding	width 6 (n th (n g banks, Comments eam (% cover) of Silt Gravel	Maximum Pool D Mean Water Depty Pool Pool Son bank stability Boulder Marl	th(cm)% FlatClayCobble
Mean Watercourse Mean Bankfull Wid% Riffle Evidence of eroding	width 6 (n th (n g banks, Comments eam (% cover) of 70 Silt	Maximum Pool D Mean Water Depty Pool Pool Son bank stability Boulder Marl	th(cm)% FlatClayCobble
Mean Watercourse Mean Bankfull Wide	width (n) th (n) g banks, Comments eam (% cover) of	Maximum Pool D Mean Water Dept Pool% Run on bank stability BoulderMarl	th(cm)
Mean Watercourse Mean Bankfull Wid% Riffle Evidence of eroding	width 6 (n th (n g banks, Comments eam (% cover) of	Maximum Pool D Mean Water Dept Pool Pool Representation Boulder Marl Boulder Marl Marl Marl	Clay Cobble Sand C
Mean Watercourse Mean Bankfull Wid% Riffle Evidence of eroding	width (n) th (n) g banks, Comments eam (% cover) of	Maximum Pool D Mean Water Dept Pool% Run on bank stability BoulderBoulderMarl CroadBoulderMarl D BoulderMarl	Clay Cobble Sand Clay Cobble Sand Cobble S
Mean Watercourse Mean Bankfull Wid% Riffle Evidence of eroding	width (n) th (n) g banks, Comments eam (% cover) of	Maximum Pool D Mean Water Dept Pool Pool No Pool Mean Water Dept Run No Pool Mari Mari Mari Mari Mari	Clay Cobble Sand Cobble Sand Cobble Detritus

xWB WB

Substrate - Downstream (% cover) & Cood

Bedrock Silt Boulder Clay Cobble

Muck Gravel Marl Sand Detritus

In-water Cover

Cover Types Present (circle): Undercut Banks Deep Pool Vascular Plants
Overhanding Vegetation Woody Debris Boulder Other

Riparian Zone

Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional)

Upstream OCO

Downstream 1000 - 2 Undercut Banks Deep Pool Vascular Plants
Other

Riparian Zone

Riparian Zone

Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional)

Upstream OCO

Downstream 1000 - 2 Undercut Banks Deep Pool Vascular Plants
Other

Priparian Zone

Riparian Z

- d/S dehned channel, Wander anded learnes.

Field Notes Authored by KE Field Notes QA/QCed by Page of

Upstream no at Downstream

Other Habitat Notes, Incidental Wildlife Observations, etc.

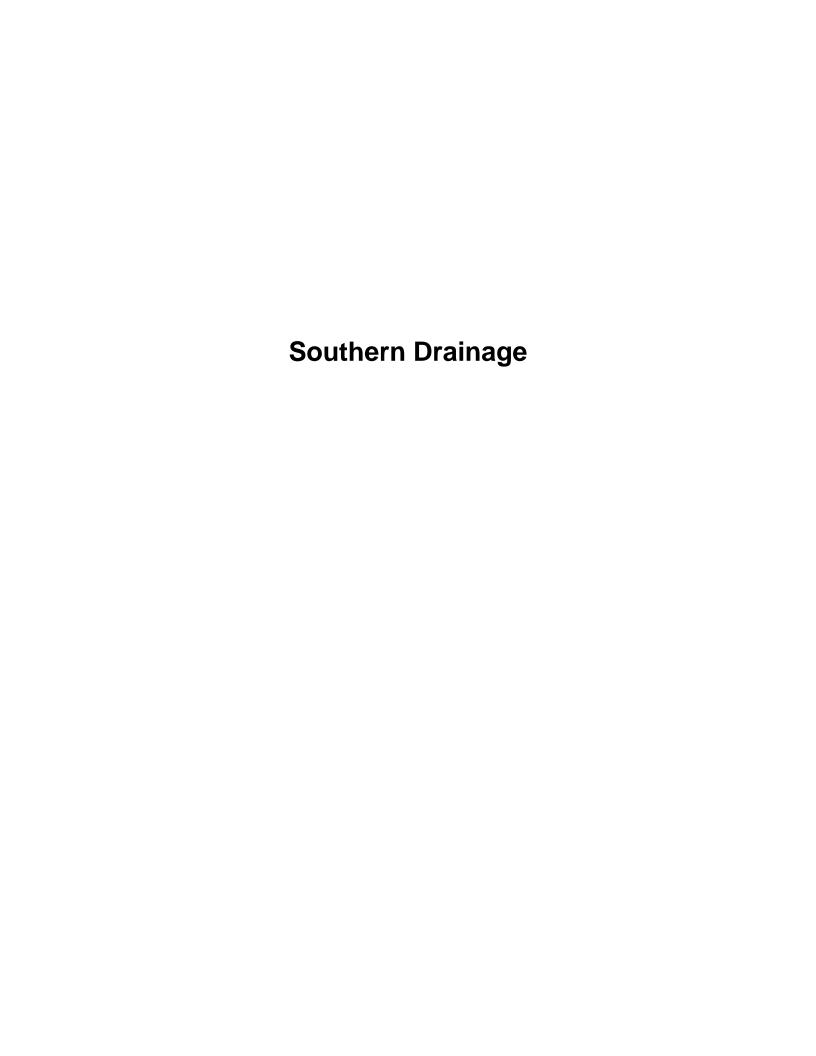
Note any fish observations



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R R	APID ASSESS	MENT FOR	M FOR AQUA	ATIC HABITA	AT (()
Stantec					
Project AMMA Station # Photos Taken GPS Coordinates Descriptive Location	Parther	Fi	oject # 60 eld Staff 61 ate May me A 1	94.0595 18 0011	`O
9 . 91	atu, n	DATA OT	STEAN THE	20.	
Water Quality Dissolved Oxygen (m Water Temperature (Weather conditions in	°C)	Ai	Conduct	ivity (μS/cm) (°C)	/
Watercourse Dimen	sions & Morphol	ogy			
Mean Watercourse W Mean Bankfull Width_ % Riffle	(m %	n) Mo Pool	aximum Pool D ean Water Dep % Burn	th	(cm) (cm) Flat
Evidence of eroding b	anks, Comments	on bank stabili	ty		
Bubstrate – Upstrea Bedrock Muck	SiltGravel	Bo	oulder	Clay Sand	Cobble Detritus
Substrate – Downsti Bedrock	Silt	Bo	oulder	Clay	Cobble
Muck	Gravel	Ma	The state of the s	Sand	Detritus
n-water Cover					
Cover Types Present Overhanging		ndercut Banks oody Debris	Deep Poo Boulder	Vascular F Other	Plants
Riparian Zone Riparian Cover (% of Upstream Downstream	watercourse shad	ed, dominant v	regetation, mate	ure or early suc	cessional)
Adjacent Land Use Upstream Downstream			/		
Fish Habitat Potentia Critical Habitat (spawi Upstream		eas groundwa	der upwellings)		
Downstream_ ligratory Obstruction: Upstream	s (seasonal, perm	enent)			
Downstream_					
lote any fish observa	tions				
Other Habitat Notes,	Incidental Wildli	ife Observation	ns,etc.	2 00-1	ire po

Ot - Il tributants checked on option property - all diffuse surficial drawn as or grassed shall in pastire.

Field Notes Authored by Field Notes QA/QCed by Page of







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Project Amberst Wand	Project # 14.09	11.0590	
Station # 10	Field Staff	+ RV	,
Photos Taken	Date Mdy 1	8 201	1
GPS Coordinates	Time 11 Lie		
Descriptive Location South Shore	Ra lepp m	1 LPAT	- QF
Lover 40 ft Rd	Try Coo in	Carrot	
Water Quality			
Dissolved Oxygen (mg/L) pH Water Temperature (°C)	Conductivity	/ (μS/cm) /	
Water Temperature (°C)	Air Temperature (°C) "	
Weather conditions in previous 24 hrs		7	
Watercourse Dimensions & Morphology			
Mean Watercourse Width (m)	Maximum Pool Dept	h	(cm)
Mean Bankfull Width (m)			(cm)
% Riffle% Pool	% Rup	% I	Flat
Evidence of eroding banks, Comments on bank	stability		
Substrate – Upstream (% cover)			0.1.1
BedrockSilt	Boulder	_Clay	
MuckGravel \	Mari	_Sand	Detritus
Substrate – Downstream (% cover)			
BedrockSilt	Boulder	Clay	Cobble
MuckGravel	Marl	_Sand	Detritus
In-water Cover	The American State of the State		
Cover Types Present (circle): Undercut E	Banks Deep Pool	Vascular F	lants
Overhanging Vegetation Woody De		Other	
Riparian Zone			
Riparian Cover (% of watercourse shaded, dom	inant vegetation mature	or early succ	cessional)
Upstream			5000.01.01)
Downstream /			
Adjacent Land Use			THE WAY
Upstream			
Downstream		Many	
Fish Habitat Potential			
Critical Habitat (spawning or nursery areas, grounds	undwater unwellings)		
Upstream Upstream	indivator upwellings)		
Downstream /		191=19	_
Migratory Obstructions (seasonal, permanent)			
Upstream			
Downstream			
Note any fish observations			
reote any han observations			
Other Hebitet Netes Incidental Million Co.			
Other Habitat Notes, Incidental Wildlife Obse		200	7
	se through	monre	deant in
s culvert outlets ento limes	Here heduck	along	gnerewe
percrea			
Field Notes Authored by Field N	otes QA/QCed by	F	Page of

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		16	3	
1		1/2	7	
	1			

	southern	braunas
RAPID ASSESSMENT FORM FOR AQUATION	C HABITAT	a Val
	C	2 YOU

Stantec
Project + Mherst 18 and Project # 160960595
Station # 17 Field Staff
Photos Taken V Date May 18 30 1
Warshall 40 Ft Rel
Water Quality
Dissolved Oxygen (mg/L) pH Conductivity (μS/cm)
Water Temperature (°C) Air Temperature (°C)
Weather conditions in previous 24 hrs
Weather conditions in previous 24 ms
Watercourse Dimensions & Morphology
Mean Watercourse Width (m) Maximum Pool Depth (cm)
Mean Bankfull Width (m) Mean Water Depth (cm)
% Riffle
Evidence of eroding banks, Comments on bank stability
Substrate – Upstream (% cover)
BedrockSiltBoulderClayCobble
MuckGravel \MarlSandDetritus
Substrate – Downstream (% cover)
BedrockSiltBoulderClayCobble
MuckGravelMarlSandDetritus
In-water Cover
Cover Types Present (circle): Undercut/Banks Deep Pool Vascular Plants
Overhanging Vegetation Woody Debris Boulder Other
Dinavian Zana
Riparian Zone
Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional)
Upstream
Downstream
Adjacent Land Use
Upstream
Downstream
Fish Habitat Potential
Critical Habitat (spawning or nursery areas, groundwater upwellings)
Upstream /
Downstream
Migratory Obstructions (seasonal, permanent)
Upstre am
Downstream
Note any fish observations
Other Habitat Notes, Incidental Wildlife Observations, etc.
-us - shallow surricial drainage to soo curivent
-dis-perched cullet posters directly not I most no hoods
thoughton,
Field Notes Authored by Page of

RAPID ASSESSMENT FORM FOR AQUATIC HABITAT
Stantec
Project Amhers + Island Project # 140940595 Station # 13 Field Staff RE + RP
Photos Taken y Date Mdu 18 2011
GPS Coordinates Time 1500 Descriptive Location South Share Roll 15 cm west of
Marshall 40 FF Rd.
Water Quality
Dissolved Oxygen (mg/L) pH Conductivity (μS/cm) Water Temperature (°C) Air Temperature (°C)
Weather conditions in previous 24 hrs
Watercourse Dimensions & Morphology Mose Westersourse Width
Mean Watercourse Width (m) Maximum Pool Depth (cm) Mean Bankfull Width (m) Mean Water Depth (cm)
% Riffle% Pool% Run% Flat
Evidence of eroding banks, Comments on bank stability
Substrate – Upstream (% cover)
Bedrock Silt Boulder Clay Cobble
MuckGravelMarlSandDetritus
Substrate – Downstream (% cover)
Bedrock Silt Boulder Clay Cobble
MuckGravelMarlSandDetritus
In-water Cover
Cover Types Present (circle): Undercut Banks Deep Pool Vascular Plants Overhanging Vegetation Woody Debris Boulder Other
Riparian Zone
Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional) Upstream
Downstream
Adjacent Land Use
Upstream Downstream
Fish Habitat Potential / Critical Habitat (spawning or nursery areas, groundwater upwellings)
Upstream Upstream
Downstream
Migratory Obstructions (seasonal, permanent)
Upstream
DownstreamNote any fish observations
Note any lish observations
Other Habitat Notes, Incidental Wildlife Observations, etc. -45 - Sun wal drawn ask hours held some fumous
-d/s -perched culvert outlets ento limestone bedreck
Field Notes Authored by Field Notes QA/QCed by Page of



RAPID ASSESSMENT FORM FOR AQUATIC HABITAT DXWE

Project Ambers + Island Station # 14	Project # [60	940595
Station # 14	Field Staff	+20
Photos Taken 1	Date May 1	8 2011
GPS Coordinates	Time 1:50	
Descriptive Location well and property of the location well and the location well are the location well and the location well and the location well are the location well and the location well and the location well and the location well are the location well are the location well and the location well are the location well are the location well are th	roperty, 1.2	kim north
Water Quality		
Dissolved Oxygen (mg/L)	H Conductiv	ity (μS/cm)
Water Temperature (°C)	Air Temperature (°	C)
Weather conditions in previous 24 hrs		
Watercourse Dimensions & Morphology		
Mean Watercourse Width (m)	Maximum Pool De	pth(cm)
Mean Bankfull Width (m)	Mean Water Depth	
% Riffle % Pool	% Run	% Flat
Evidence of eroding banks, Comments on ba	nk stability	
Substrate - Upstream (% cover)		
Bedrock Silt	Boulder	Clay Cobble
Muck Gravel	Marl Marl	Sand Detritus
Substrate – Downstream (% cover)	L	
BedrockSilt	Boulder	ClayCobble
MuckGravel \	Marl	SandDetritus
In-water Cover	X	
Cover Types Present (circle): Undergu	t Banks Deep Pool	Vascular Plants
Overhanging Vegetation Woody [Debris Boulder	Other
Riparian Zone		
Riparian Cover (% of watercourse shaded, do	minant vegetation matur	e or early successional)
Upstream	minant vegotation, matur	e or early successionar)
Downstream		
Adjacent Land Use		
Upstream		
Downstream		
Fish Habitat Potential		
Critical Habitat (spawning or nursery areas, gr	roundwator upwollingo)	
Upstream /	Touridwater upweilings)	
Downstream		
Migratory Obstructions (seasonal, permanent	T	
Upstream		
A CONTRACTOR OF THE PROPERTY O		
Downstream		
Downstream Note any fish observations		
DownstreamNote any fish observations		
Note any fish observations		
Note any fish observations Other Habitat Notes, Incidental Wildlife Ob	· · · · · · · · · · · · · · · · · · ·	controlled
Other Habitat Notes, Incidental Wildlife Ob	servations, etc.	saturated
Note any fish observations Other Habitat Notes, Incidental Wildlife Ob	· · · · · · · · · · · · · · · · · · ·	sortwated
Note any fish observations Other Habitat Notes, Incidental Wildlife Ob	· · · · · · · · · · · · · · · · · · ·	saturated



SOUTHER RAPID ASSESSMENT FORM FOR AQUATIC HABITAT

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г ((6)	XW	

Stantec

Water Quality Dissolved Oxygen (mg/L) pH Water Temperature (°C) Weather conditions in previous 24 hrs	Conductivity	(uS/cm)	
Water Temperature (°C)			
	Air Temperature (°C)		
TTCALICI CONGLICIO III DICTICUS 27 IIIS	Air remperature (C)		
Watercourse Dimensions & Morphology Mean Watercourse Width(m)	Maximum Pool Dept		(000)
Mean Bankfull Width (m)	Mean Water Depth		(cm)
% Riffle % Pool	% Run	%	(cm) Flat
Evidence of eroding banks, Comments on bank		/0	1 lat
Substrate – Upstream (%cover)			
BedrockSilt	Boulder	_Clay	Cobble
MuckGravel	Mark	_Sand _	Detritus
Substrate – Downstream (% cover)			
Bedrock Silt	Boulder	Clay	Cobble
Muck Gravel	Mari	Sand	Detritus
n-water Cover			
	Davids David David		
Cover Types Present (circle): Undercut I		Vascular	
		Vascular Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De	bris Boulder	Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De Riparian Zone Riparian Cover (% of watercourse shaded, dom	bris Boulder	Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De Riparian Zone Riparian Cover (% of watercourse shaded, dom Upstream	bris Boulder	Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De Riparian Zone Riparian Cover (% of watercourse shaded, dom Upstream Downstream	bris Boulder	Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De Riparian Zone Riparian Cover (% of watercourse shaded, dom Upstream Downstream Adjacent Land Use	bris Boulder	Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De Riparian Zone Riparian Cover (% of watercourse shaded, dom Upstream Downstream Adjacent Land Use Upstream	bris Boulder	Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De Riparian Zone Riparian Cover (% of watercourse shaded, dom Upstream Downstream Adjacent Land Use	bris Boulder	Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De Riparian Zone Riparian Cover (% of watercourse shaded, dom Upstream Downstream Adjacent Land Use Upstream	bris Boulder	Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De Riparian Zone Riparian Cover (% of watercourse shaded, dom Upstream Downstream Adjacent Land Use Upstream Downstream Downstream The Cover (% of watercourse shaded, dom Upstream Downstream The Cover (% of watercourse shaded, dom Upstream Downstream The Cover Types Present I	abris Boulder	Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De Riparian Zone Riparian Cover (% of watercourse shaded, dom Upstream Downstream Adjacent Land Use Upstream Downstream Downstream Downstream	abris Boulder	Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De Riparian Zone Riparian Cover (% of watercourse shaded, dom Upstream Downstream Adjacent Land Use Upstream Downstream Downstream Tish Habitat Potential Critical Habitat (spawning or nursery areas, gro	abris Boulder	Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De Riparian Zone Riparian Cover (% of watercourse shaded, dom Upstream Downstream Adjacent Land Use Upstream Downstream Downstream Tish Habitat Potential Critical Habitat (spawning or nursery areas, gro Upstream	abris Boulder	Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De Riparian Zone Riparian Cover (% of watercourse shaded, dom Upstream Downstream Adjacent Land Use Upstream Downstream Downstream Fish Habitat Potential Critical Habitat (spawning or nursery areas, gro Upstream Downstream Lipstream Aligratory Obstructions (seasonal, permanent)	abris Boulder	Other	
Cover Types Present (circle): Undercut I Overhanging Vegetation Woody De Riparian Zone Riparian Cover (% of watercourse shaded, dom Upstream Downstream Adjacent Land Use Upstream Downstream Downstream Fish Habitat Potential Critical Habitat (spawning or nursery areas, gro Upstream Downstream Linetream Alignatory Obstructions (seasonal, permanent)	ninant vegetation, mature	Other	

6	10	
	115	
	Carlo Carlo	110

RAPID ASSESSMENT FORM FOR AQUATIC HABITAT (8)
Project AMhers I Rand Station # _ Replace Project # _ LU09L059J
Water Quality Dissolved Oxygen (mg/L) 12.0 pH 7.92 Conductivity (μS/cm) 159 Water Temperature (°C) 17.3 Air Temperature (°C) 140 Weather conditions in previous 24 hrs
Watercourse Dimensions & Morphology Mean Watercourse Width (m) Maximum Pool Depth (cm) Mean Bankfull Width (m) Mean Water Depth (cm) — % Riffle — W Pool — % Run — % Flat Evidence of eroding banks, Comments on bank stability — Stable
Substrate - Upstream (% cover) BedrockSiltBoulderClay/O _CobbleMarlSand/O _Detritus
Substrate - Downstream (% cover) Bedrock 50 Silt Boulder Clay Cobble Muck Gravel Marl Sand 40 Detritus
In-water Cover Cover Types Present (circle): Undercut Banks Deep Pool Vascular Plants Overhanging Vegetation Woody Debris Boulder Other
Riparian Zone Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional) Upstream Downstream Upstream Upstream Downstream Downstream
Fish Habitat Potential Critical Habitat (spawning or nursery areas, groundwater upwellings) Upstream Downstream Migratory Obstructions (seasonal, permanent)
Upstream
Other Habitat Notes, Incidental Wildlife Observations, etc. -45-w6 in woodlot, xw6 45 Through held sufficiently of the woodlot daisa
Field Notes Authored by Field Notes QA/QCed by Page of



Stantec Consulting Ltd - Electrofishing Record and Catch Results

Page ___ of ___

Project Number	160940	0595	_	Station Numb	er <u>18</u>	
Project Name	Amhorst	-18land	NI.	Pass No. (if a	pplicable)	
Project manage	er			Date (yyyymn	ndd): May 18	2011
Descriptive Loc	ation <u>Fdr N</u>	accers	et di	ad end	of south	shore
UTM coordinate	98		easting		northing	zone
Fishing Method	(circle one):	Backpac	k Boa	t Unit	Model/Make	
Sampling Metho	od (circle one):	even	habitat	transect	spot	
Settings	shing Seconds):	78	Number of Nette		Number of Anodes	: _/
Frequency (Hz) Station Informa		Voltage (volts)	<u>400</u> Cur	rent (Amps)	Power (Watts)	
	m Surveyed (m)	30				
Station Charact		Width (m):	Range 1-	3 Avera		
Water Clarity/Co Temperature Catch Data		.3		elocity if Measured Conductivity (Dissolved Oxygen	uS/cm) 159	
Species	Number of Fish	The second	Spe	cies Num	ber of Fish	
ok Stickle	3					

Fish Measuremo	ents on Separate She			No	tes By: KS	

6			1	
		1/2	1	
1	1	1	,	

RAPID ASSESSMENT FORM FOR AQUATIC HABITAT
Project Amurst II and Project # 10900595 Station # Photos Taken Date Date Date Time Descriptive Location and Patercoarse draining Swamp wetterd
Water Quality Dissolved Oxygen (mg/L) Water Temperature (°C) Weather conditions in previous 24 hrs PH 7-70 Conductivity (µS/cm) Air Temperature (°C) Air Temperature (°C)
Watercourse Dimensions & Morphology Mean Watercourse Width (m) Mean Water Depth (.5 + (cm) Mean Bankfull Width (m) Mean Water Depth (cm) % Riffle % Pool % Run 60% Flat Evidence of eroding banks, Comments on bank stability
Substrate - Upstream (% cover) Bedrock D Silt Boulder Clay Cobble Muck Gravel Marl Sand Detritus
Substrate - Downstream (% cover) Bedrock Silt Boulder Clay Cobble Muck Gravel Marl Sand ODDetritus
In-water Cover Cover Types Present (circle): Undercut Banks Deep Peol Vascular Plants Overhanging Vegetation Woody Debris Boulder Other
Riparian Zone Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional) Upstream 10% 10900000000000000000000000000000000
Fish Habitat Potential Critical Habitat (spawning or nursery areas, groundwater upwellings) Upstream Downstream Migratory Obstructions (seasonal, permanent) Upstream Downstream Note any fish observations Plantage Plan
Other, Habitat Notes, Incidental Wildlife Observations, etc. - war dep warrows slighty singles of Single pool & culvert - SV ys. Nar culvert Field Notes Authored by Field Notes QA/QCed by Page L of Lege isk - probably one of the few permanent watercourses on the isk



Stantec Consulting Ltd - Electrofishing Record and Catch Results

Project Number Project Name Project manage Descriptive Loc	Amherst Islan	nd n stella	Station Number Pass No. (if applica Date (yyyymmdd):	May 18 2011
UTM coordinate	es	easting		northing zone
Fishing Method Sampling Metho	od (circle one):	ack Boat	Unit Mode transect	I/Make_ spot
Effort (Electrofis	shing Seconds): 236	Number of Netters		Number of Anodes:
Settings Frequency (Hz) Station Inform		350-550 Curre	nt (Amps)	Power (Watts)
	m Surveyed (m)			
Station Charact		Range 2 -	3.5 Average:	2.5 70cm
Water Clarity/Co Temperature Catch Data	OVI AGE		ocity if Measured (m/s Conductivity (uS/cn issolved Oxygen (mg/l	n) <u>83</u>
Species	Number of Fish	Speci	es Number o	f Fish
Fathead				
Minn	ow Trap Mo	y 19		
Fathead	XXX = 30			
NRB DACE	c ? = 4			
	D B B II = 38			
Bluesill				
Mudminer	e			
Fish Measurement Field Staff:	ents on Separate Sheet? Y/		Notes B	y: KE

(Station Diagram on Back)



WIND FARM WATERBODY RAPID ASSESSMENT FORM Possibly Tokemiden
Southern brownage

Station #	52		Project Name	Amherst	Is. Wind	
Watercourse	Name //nkhown tr	ib to LK.ON	Project # 16			CVA TO THE TANK
Photos %0	3:488615		Field Staff /			X LL Z
	ch 28,2012		Time 13-30			
		is 24 hrs mod p			A STATE	
	nates (Zone <u>) 18</u>		201	N 488961	→ Datur	n Nad 83
Descriptive L	ocation in	Row on not	1th side	ditch are	c of 2nd	A STATE OF THE STA
Lone Ko	1 ~ 100 m e	east of potention	al access (d	of turbic	e 504	
Water Quali	ty					
Dissolved Ox	xygen (mg/L)	9.76 pH	8,52 Cond	uctivity (µS/cn	n) 575	
	erature (°C) /6	14	Air Temperatu			
Time in situ r	measurements ta	aken /3 · 45				
Watercours	e Dimensions &	Marphalagy	Standing	water Qc	sluct	
Mean Water	course Width	·D (m)				
Mean Bankfu	III Width	·····································	Maximum Poo	CONTRACTOR STORY	· ·	
Wear Dankit	% Riffle	Annales and Allert Michael Per Service	Mean Water D	ерш <u>73</u> % Ru	(cm)	0/ Flat
Evidence of		comments on bank s		% Ru	n To	% Flat
exposed by	eding banks, c	is observed for	Haralle Mano	CAC SE	S3	Some
- xporen or	ENTOCK TITOE	3 83 950CM 1011	(W) 4/3 (W)	YAS UN	33	
Substrate (%						
50	Bedrock	Cobble	Sand_	40		Muck
	Boulder	Gravel			Marl	Detritus
In-water Co	VOF		1	occulues t		uatic Veg
	Present (circle):	Ündercut Ba	Doon I	Pool Water	roross (No	intio Variational gas
		Woody Debris	Boulder	Other	iciess (Aq	uatic veg
o vornanging	rogotation	Froody Dobiis	Douldel	Other		
Riparian Zoi						
Riparian Cov	er (% of waterco	ourse shaded, domin	ant vegetation, n	nature or early	/ successional)	
20%0 = 05	holong road	side and shrubs	on other side			
Aniacentian	אסוו חו					
- ara zina	, small w	oud lot				
Fish Habitat						
	THE RESERVE OF THE PARTY OF THE	nursery areas, grour	ndwater upwelling	js)		$=$ λ
Norsery Ob		(
Migratory Ob	structions (seaso	onal, permanent)				
Note any fich	observations	ible intermitent				
Note any non	TODSETVALIONS	70070				
Waterbody i						
Natural Wate		Trapezoidal Channe	The second secon	ssed Swale	Burjed	Tile
Surficial Drai	nage (i.e. furrows	s) Dugout Po	nd Domir	nated by Aqua	tic Veg/_	Dry
Other Hebits	ot Natos Incider	ntal Wildlife Obser	matiene etc M			
Other Habita	at Notes, incider	ntal Wildlife Obser	vations, etc. $\underline{11}$	any govter	snakes of	ber uca
Turning Da	11) 700K PN670	s. , leopard fro	9	U de la company		
	WATER ALGERTAL TO					
			/			
Field Notes Autho	pred by MF	Field Not	es QA/QCed by			
		ALTERNATIONS AND ADDRESS OF THE PARTY OF THE				

Grazing fred Car to be NACOTOR (continue to the frauther of the (Chi present graff before tool Cot 000 FARM Rd 2nd conc W = green algae patch -flow Virud conon 11 cate.)



souther	n Brains
HABITAT	36) WR

RAPID ASSESSMENT FORM FOR AQUATIC HABITAT

Project Amply Cond Station # 3 0 Photos Taken GPS Coordinates Descriptive Location Selfa 40 F- Rd	Project # 10940595 Field Staff PE + RP Date May 19 20/1 Time 4:30
Water Quality Dissolved Oxygen (mg/L) (23 pH Water Temperature (°C) 24.98 Weather conditions in previous 24 hrs	7.8 2 Conductivity (μS/cm) 199 Air Temperature (°C) 20
Watercourse Dimensions & Morphology Mean Watercourse Width (m) Mean Bankfull Width (m) % Riffle (m) Evidence of eroding banks, Comments on bank s	Maximum Pool Depth 60 (cm) Mean Water Depth 15 (cm) ————————————————————————————————————
Substrate - Upstream (% cover) BedrockSilt MuckGravel	Boulder Clay Cobble Marl Sand Detritus
Substrate - Downstream (% cover) Bedrock	Boulder (e Cobble Sand Detritus
In-water Cover Cover Types Present (circle): Overhanging Vegetation Undercut Ba Woody Deb	
Riparian Zone Riparian Cover (% of watercourse shaded, domin Upstream O O O O O O O O O O O O O O O O O O O	nant vegetation, mature or early successional)
Fish Habitat Potential Critical Habitat (spawning or nursery areas, ground Upstream Downstream Downstream Seasonal, permanent) Upstream	ndwater upwellings)
Downstream	record minnew traps
Other Habitat Notes, Incidental Wildlife Obser - 4/5 - AD access - 4/5 - Maised, regetaled	channel ul sone vate
	tes QA/QCed by Pageof



Stantec Consulting Ltd - Electrofishing Record and Catch Results

Project Number Project Name (60960595 Project manager Descriptive Location Miles brown @	Station Number Pass No. (if applicable) Date (yyyymmdd): And (On(
UTM coordinates easting	northing zone
Fishing Method (circle one): Sampling Method (circle one): Backpack even hab	Boat Unit Model/Make epot
Settings	of Netters: Number of Anodes:
Station Information Length of Stream Surveyed (m) Station Characteristics: Width (m): Range Depth (m): Range	Current (Amps) Power (Watts) Average: Average: Water Velocity if Measured (m/s):
Temperature (°C) pH Catch Data	Conductivity (uS/cm) Dissolved Oxygen (mg/L)
Species Number of Fish MUNICIAN TYAP EVS BOOK AND AND = 46	Species Number of Fish
alleget 🛛 🖾 :: = 24	
udavanov = 1	
RB Call M XXX: = 41	
Fish Measurements on Separate Sheet? YMF	Notes By:

(Station Diagram on Back)

Stam	RAPID ASSESS	SMENT FORM F	or aquatic fler Mun.	HABITAT 3
Project Station # Photos Ta GPS Coo Descriptiv	Amberst Islan	Field S Date Time	t# 160760 Staff Kt + May 19 5:105 ex Mun	595 2011 Drain +
Water Ter	ality Oxygen (mg/L) nperature (°C) onditions in previous 24 hrs	Air Tei	_ Conductivity (µ mperature (°C) _	.S/cm)
Mean War Mean Bar %	rse Dimensions & Morpholercourse Width (nkfull width (nkfu	n) Maxim n) Mean b Pool	um Poel Depth_ Water Depth % Run	(cm) % Flat
Be	- Upstream (% cover) drockSilt ckGravel	Boulde Mari		ClayCobb SandDetri
Be Mu	7 2	Boulde Marl		ClayCobb SandDetri
In-water (Cover Typ Ov	es Present (circle): Ui	ndercut Banks oody Debris	The Court of the C	ascular Plants Other
Up Do Adjacent L Up	over (% of watercourse shad stream	ded, dominant vege	tation, mature or	early successional
Critical Ha	tat Potential pitat (spawning or nursery ar stream	reas, groundwater u	pwellings)	
-	Obstructions (seasonal, perm stream Perman	nanent)		

Field Notes QA/QCed by

Page ___of___

Field Notes Authored by KE

soulles a Xm
RAPID ASSESSMENT FORM FOR AQUATIC HABITAT QU
Stantec Miller Mun. Drain 39
Project Ambeus - Land Station # 30 Project # 100910595 Photos Taken V Date May 9 2011 Time Time 250 m north 100 upedlot
Water Quality Dissolved Oxygen (mg/L) 009 pH 7.88 Conductivity (μS/cm) 234 Water Temperature (°C) 22.2) Air Temperature (°C) 21° Weather conditions in previous 24 hrs (00)
Watercourse Dimensions & Morphology Mean Watercourse Width 10 (m) Maximum Pool Depth 50 (cm) Mean Bankfull Width 15 (m) Mean Water Depth 50 (cm) % Riffle % Pool % Run 100% Flat Evidence of eroding banks, Comments on bank stability 50 Me 1005 000 000 0000 0000 0000 0000 0000
Substrate - Upstream (% cover) Bedrock Silt Boulder O Clay Cobble Muck Gravel Marl Sand Detritus
Substrate - Downstream (% cover) Bedrock Silt Boulder LOO Clay Cobble Muck Gravel Marl Sand Detritus
In-water Cover Cover Types Present (circle): Undercut Banks Deep Pool Vascular Plants Overhaaging Vegetation Woody Debris Boulder Other
Riparian Zone Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional) Upstream
Fish Habitat Potential Critical Habitat (spawning or nursery areas, groundwater upwellings) Upstream Downstream
Migratory Obstructions (seasonal, permanent) Upstream Downstream Note any fish observations
-ASVIER CONTRACTOR 36.
Other Habitat Notes, Incidental Wildlife Observations, etc. - arch wide slow howing drawn in 10ts of

Field Notes Authored by	Notes Authored by KE		
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RAPID ASSESSMENT FORM FOR AQUATIC HABITAT

southe	n	Da	una
HABITAT	(B	5)	NE

	-		
aı	-	-	
 <i>a</i>	1 1 1		2

Project Ambers - Island	Project # 160960,595
Station # 3	Field Staff
Photos Taken	Date May 19 2011
GPS Coordinates	Time 4: K
Descriptive Location 310 Conc. Rol	3.5 km uest of
Stella 40H Rd, 6	Miller Min. Drain
Water Quality	
Dissolved Oxygen (mg/L) pH_	Conductivity (µS/cm)
	Air Temperature (°C)
Weather conditions in previous 24 hrs	
Watercourse Qimensions & Morphology	
Mean Watercourse Width(m)	Maximum Pool Depth (cm)
Mean Bankfull Width (m)	
% Riffle% Pool	% Run % Flat
Evidence of eroding banks, Comments on bank	stability
Substrate – Upstream (% cover)	
BedrockSNt	BoulderClayCobble
MuckGravel	MarlSandDetritus
Substrate - Downstream (% cover)	
BedrockSilt \	Boulder /ClayCobble
MuckGravel \	Marl Sand Detritus
In-water Cover	
Cover Types Present (circle): Undercut B	anks Deep Pool Vascular Plants
Overhanging Vegetation Woody Deb	Boulder Other
Riparian Zone	
Riparian Cover (% of watercourse shaded, domin	nant vegetation, mature or early successional)
Upstream	
Downstream	
Adjacent Land Use	
Upstream	
Downstream	
Fish Habitat Potential	
Critical Habitat (spawning or nursery areas, grou	ndwater upwellings)
Upstream	
Downstream	
Migratory Obstructions (seasonal, permanent)	
Upstream	
Downstream	
Note any fish observations	
Other Habitat Notes, Incidental Wildlife Obser	rvations, etc.
-just shotes to confirm	
-no accers.	The state of the s
- In many.	
Field Notes Authored by LE Field No	tes QA/QCed by Page of



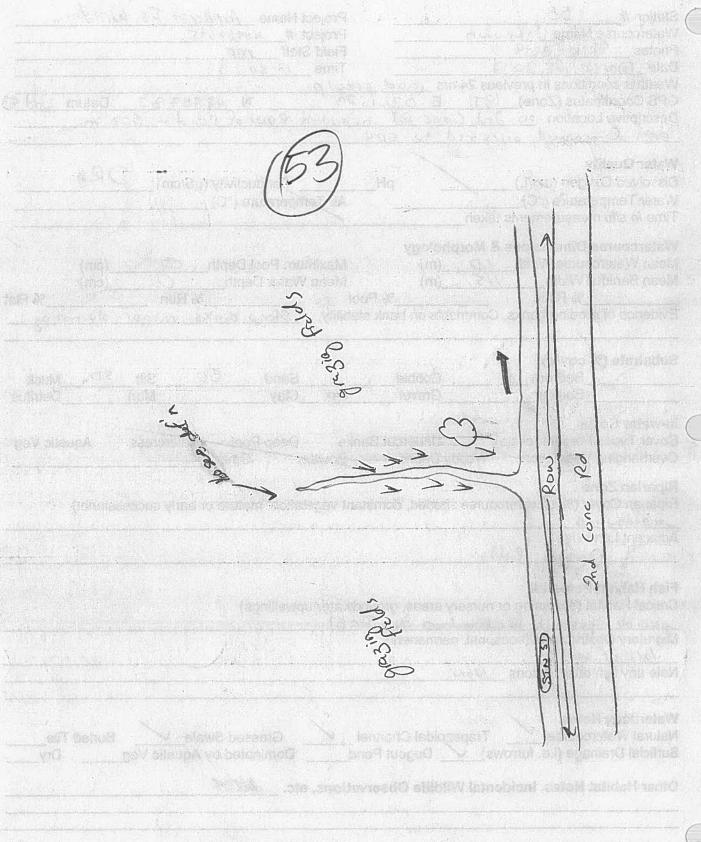
WIND FARM WATERBODY RAPID ASSESSMENT FORM

DRY DRY

Island

Station #53		Proje	ct Name	Amhers	+ Is. I	wind	
Watercourse Name Unknow				0966595		0,110	
Photos 9616 - 8618			Staff		II TO HOLE OF		
Date March 28, 2012			13:50				
Weather conditions in previous	24 hrs mod	occio				100000	
GPS Coordinates (Zone) 181	E 036	529		N 4229	793	Datur	n Nad \$3
Descriptive Location on 2nd	Conc Rd	FLIVE 0	h Row	ef 100	1 50	Datail	in place by
east of proposed orces	, rd to sou	1		7. 104.			
Water Quality						~ 0.4	
Dissolved Oxygen (mg/L)	/ pH_		Cendu	ctivity (µS	(cm)	DRY	
Water Temperature (°C)		Air T	emperatur	e (°C)			
Time in situ measurements take	n	/					
Watercourse Dimensions & M Mean Watercourse Width /.0 Mean Bankfull Width //5 Riffle) (m)	Maxii Mear	num Pool Water De	Depth epth	O Run	(cm)	% Flat
Evidence of eroding banks, Con	ments on bank	stability	Steep	banks	Wilou	slum	ping
							<u> </u>
Substrate (% cover)				6-		0-	
Bedrock	Cobble		_Sand_	50		30	Muck
Boulder	Gravel	20	Clay		Marl		Detritus
Riparian Zone Riparian Cover (% of watercours Madou 50 Adjacent Land Use							
grazing fields							
Fish Habitat Potential Critical Habitat (spawning or nur Observed Seawn in Wicom Migratory Obstructions (seasons	advanto S	ındwater নিত্য	upwelling	s)			
lack of water							
Note any fish observations	0~						
Waterbody Notes Natural Watercourse Transcription of the Transcript		ond	_ Domina	sed Swale		Buried	Tile Dry
	ani kalendari da katawa ili. Kanan kalendari da katawa ili.						
Field Notes Authored by							
ricid redies Authored by	Field No	ites QA/QCe	a by				

CANAL SERVICES SERVIC



Southern brainage
RAPID ASSESSMENT FORM FOR AQUATIC HABITAT
Stantec
Project AMNENS Sand Station # 20 Photos Taken V Project # 110910595 Field Staff X = + RP Date May 18 2011
Descriptive Location and Conc Rd, 1-2 km west of
Vater Quality Dissolved Oxygen (mg/L) pH Conductivity (µS/cm) Vater Temperature (°C) Air Temperature (°C) Veather conditions in previous 24 hrs
Watercourse Dimensions & Morphology Mean Watercourse Width(m)
Bedrock Silt Boulder Clay Cobble Muck Grave Marl Sand Detritus
Bedrock Silt Boulder Clay Cobble Mari Sand Detritus
n-water Cover over Types Present (circle): Undercut Banks Deep Pool Vascular Plants Overhanging Vegetation Woody Bebris Boulder Other
iparian Zone iparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional) Upstream Downstream
djacent Land Use Upstream Downstream
ritical Habitat (spawning or nursery areas, groundwater upwellings) Upstream
Downstream
ote any fish observations
ther Habitat Notes, Incidental Wildlife Observations, etc.
eld Notes Authored by Field Notes QA/QCed by Page of



6	southern braina
<u>त्रि</u>	RAPID ASSESSMENT FORM FOR AQUATIC HABITAT BUNGA

1 1 1 1 1 1 1 1 1	
Project # Wogle 595	
Station # 37 Field Staff FETRP	
Photos Taken Date Date	
GPS Coordinates Time 4.45	
Descriptive Location South of 200 Conc. Rd in pastur	2
Water Quality	
Dissolved Oxygen (mg/L) 7.08 pH 7.80 Conductivity (µS/cm) 398	
Water Temperature (°C) <u>A3.88</u> Air Temperature (°C) <u>33.88</u> Weather conditions in previous 24 hrs	
Watercourse Dimensions & Morphology	
Mean Watercourse Width (m) Maximum Pool Depth (cm)	•
Mean Bankfull Width 4 (m) Mean Water Depth 20 (cm % Riffle % Pool % Run 100% Flat)
% Riffle% Pool% Run% Flat Evidence of eroding banks, Comments on bank stability	
veg banks	
Substrate – Upstream (% cover)	
	oble
MuckGravelMarlSandDe	ritus
Substrate - Downstream (% cover)	
	oble
MuckGravelMarlSandDe	ritus
In-water Cover	
Cover Types Present (circle): Undercut Banks Deep Pool Vascular Plants Overhanging Vegetation Woody Debris Boulder Other	
Riparian Zone	
Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early succession	
	al)
Upstream	al) ——
Upstream	al) ——
Upstream	al) ——
Upstream	al)
Upstream	al)
Upstream	al)
Upstream	al)
Upstream Downstream Note any fish observations Downstream Do	al)



Field Notes Authored by _

Southern Drainageles

	WIND FARM	M WATERBOD	Y RAPID	ASSESS	MENT FOR	M (
Stantec							
	0		Dunings A		hare L 1	chal	
Station # 0	7		Project N	lame Am	20 69	19,00	
Watercourse Name Photos 43	me		Field Sta	H Val	0037		
Date Aus	TE 801.	2		148	01.3		
Weather condition	ne in previous 2	A hre	111116 —	197			
GPS Coordinates	s (70ne) \ \&	T F 3/08	110	N 4	REDEOX	Datum	
Descriptive Loca							
Water Quality			11	111			
Water Quality	n (ma/l)	pH_	/	Conductivity	/ (μS/cm)		
Dissolved Oxyge			Air Tomr	conductivity	/ (µЗ/СП))		
Water Temperate Time in situ mea			All remp	belature (C			
I IME III SILU MEA	Surements taker						
Watercourse Di	mensions & Mo	orphology					
Mean Watercour Mean Bankfull W	se Width	(m)	Maximur	n Pool Dept	h	_(cm)	
Mean Bankfull W	/idth	(m)	Mean W	ater Depth_		_(cm)	
%	Riffle	% Po	_ loc		_% Run	adamisin Washin	% Fla
Evidence of erod	ling banks, Com	ments on bank s	tability _				
Substrate (% co	ver)						
		Cobble	S	and	Silt	Mu	ıck
	oulder		C	lay	Marl	De	tritus
In-water Cover							
Cover Types Pre	sent (circle):	Undercut Ba	anks D	eep Pool	Watercress	Aquatic	Veg
Overhanging Ve	getation Wo	oody Debris	Boulder	Other			
Riparian Zone							
Riparian Cover (% of watercours	e shaded, domir	ant vegetat	tion, mature	or early succes	ssional)	
Adjacent Land U	se						
pastne							
Fish Habitat Po	tential						
Critical Habitat (s		sery areas, groui	ndwater upv	wellings)			
Migratory Obstru	ctions (seasona	k, permanent)					
							MADA NE
Note any fish obs	servations/						E 50
Waterbody Note							
Natural Waterco		anezoidal Chann	اه	Graceed S	Swale	Buried Tile	
Surficial Drainag	e (i e furrows)	Dugant Pa	and	Dominated I	ov Aquatic Veg	Danou Tile	y V
Carnolal Diamay	- (i.o. idilows)_	Dagout FC			oy Aquado vog	onten,	7
Other Habitat N	otes, incidenta	i Wiidlife Obser	vations, et	C			

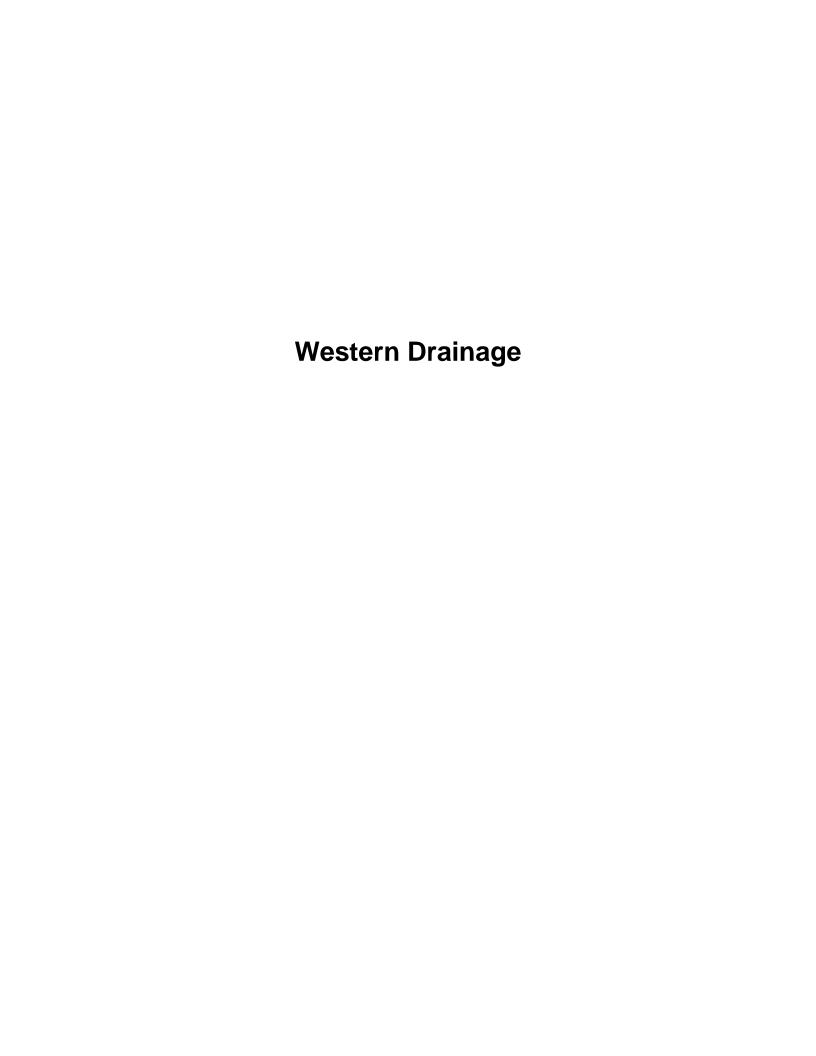


RAPID ASSESSMENT FORM FOR AQUATIC HABITAT

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ABITAT	1	a)		6
ABITAT	0	ע	Xu	1

Stantor			

Project Annext Island Station # 3 9 Photos Taken GPS Coordinates Descriptive Location Short In pasto	Project # (109100095) Field Staff 12 + RP Date May 19 2011 Time 19 2011
Water Quality Dissolved Oxygen (mg/L) Water Temperature (°C) Weather conditions in previous 24 hrs	Conductivity (µS/cm) Air Temperature (°C)
Watercourse Dimensions & Morphology Mean Watercourse Width 10,5-4 (m) 2001 Mean Bankfull Width 1- (m) 2001 We Riffle 30 % Pool Evidence of eroding banks, Comments on bank sta	Maximum Pool Depth 30 (cm) Mean Water Depth 1 (cm) % Run 70 % Flat ability
Substrate – Upstream (% cover) BedrockSilt MuckGravel	Boulder Clay Cobble Marl Sand ODDetritus
Substrate - Downstream (% cover) Bedrock So Silt Gravel	_BoulderClayCobble _MarlSandDetritus
In-water Cover Cover Types Present (circle): Overhanding Vegetation Undercut Bar Woody Debris	
Riparian Zone Riparian Cover (% of watercourse shaded, domina Upstream Downstream Adjacent Land Use Upstream Downstream Downstream	nt vegetation, mature or early successional)
Fish Habitat Potential Critical Habitat (spawning or nursery areas, ground Upstream Downstream Note any fish observations (seasonal, permanent) Note any fish observations	lwater upwellings)
Other Habitat Notes, Incidental Wildlife Observation Swhile Swhil	ations, etc. drainage though partie typoranty ponded area not anying through coa/aced by Page Lot





Western braunage

RAPID ASSESSME	NT FORM FOR AQUATIC	HABITAT No
Stantec		RE
Project: Amherst Tsland Wind Station # #2 41 Photos Taken 491, 492, 493 GPS Coordinates 0360555 488748 Descriptive Location — 2km 500	Project # 16 096 0 5 Field Staff <u>KC, M1</u> Date <u>07 07 /2011</u> Time _ 6:// pm th of 2nd Conc.	
Water Quality Dissolved Oxygen (mg/L) Water Temperature (°C) Weather conditions in previous 24 hrs	Air Temperature (°C)	
Watercourse Dimensions & Morphology Mean Watercourse Width(m) Mean Bankfull Width(m)% Riffle% Pool Evidence of eroding banks, Comments on the contract of the contrac	Maximum Pool Depth	
Substrate – Upstream (% cover)BedrockSiltMuckGravel		ClayCobble SandDetritus
Substrate - Downstream (% cover) BedrockSiltMuckGravel		ClayCobble SandDetritus
	Tout During	Vascular Plants Other
Riparian Zone Riparian Cover (% of watercourse shaded,	dominant vegetation, mature or	early successional)

Upstream_ **Downstream** Grassy Swale. TII-defined Adjacent Land Use **Upstream** Downstream_

Fish Habitat Potential Critical Habitat (spawning or nursery areas, groundwater upwellings) Upstream_ Downstream_ Migratory Obstructions (seasonal, permanent) Upstream_

Downstream_ Note any fish observations

Other Habitat Notes, incidental Wildlife Observations, etc.

Field Notes QA/QCed by _ Field Notes Authored by



WIND FARM WATERBODY RAPID ASSESSMENT FORM WATERBODY Fish observed.

Station #5\		Project Name	Amberst Is.	Wind	Passib
Watercourse Name Unknow trib	to LK.ON	Project # 160			intern
Photos 8590 - 8602		Field Staff	F	Ay May and a second	
Date March 28, 2012		Time 12-30			
Weather conditions in previous 2	4 hrs mod.am	ounts of prair	0		
GPS Coordinates (Zone) 19T	E 03602		4888573	Datum *	Vad 83
Descriptive Location ~ 200 m			~ 1000m		
Emerald 40 Rd.					
Water Quality					minor flo
Dissolved Oxygen (mg/L) /0.4	D pH_	8.85 Conduc	ctivity (µS/cm)	138	
Water Temperature (°C) 12.7	7	Air Temperature	(°C) Ť		
Time in situ measurements taker	13:01			可以	
Watercourse Dimensions & Mo	rphology				
Mean Watercourse Width /. 6		Maximum Pool [Depth 20	(cm)	
Mean Bankfull Width 2.2	(m)	Mean Water De		(cm)	
% Riffle	THE RESERVE AND PERSONS AND PERSONS ASSESSED.	ol	% Run	50	% Flat
Evidence of eroding banks, Com					_70 1 lat
near rd. Majority of d	rannel is w	ell voet'd			
Substrate (% cover)					
Bedrock	Cobble	80 Sand	25 Sill	, in the second	/luck
Boulder	Gravel		30 Ma	12	etritus
Cover Types Present (circle): Overhanging Vegetation Riparian Zone Riparian Cover (% of watercourse Adjacent Land Use	ody Debris e shaded, domin	Boulder C ant vegetation, ma	other nture or early suc	cessional)	ic'Veg
Fish Habitat Potential					
Critical Habitat (spawning or nurs	envareas arour	dwater upwellinge			
forasing spawning or hors					
Migratory Obstructions (seasonal	permanent)	VI CAL THOU			
lack of flows: lack of		sa dis sec	ctions		
Note any fish observations 3		Species unl			
					red canony
Water to the National /				/	1422
Waterbody Notes				/_	
	pezoidal Channe		ed Swale	Buried Til	
Surficial Drainage (i.e. furrows)	v Dugout Poi	na Dominat	ted by Aquatic V	eg v C)ry
Other Habitat Notes, Incidental	Wildlife Obsen	rations, etc. hea	rd lepnord	from . 41	acia.
peeper, raptors (x2				3 3	0
			48		
					4
Field Notes Authored by	Field Note	s OA/OCed by			

W:\resource\Internal Info and Teams\Aquatic Resources\Field Sheets\Stantec\Form 02 Wind Farm Waterbody Rapid Assessment Form.doc

Notes: -may dry up.
-minor def'n Porther - almost nonexistent defin when a confluence of 2 Minor flows throughout channel. Pish obserd (1) fosh obseredu) azing Il Sedge Sphirmed (=ash (hedgrow) 1 = flow direction



Field Notes Authored by MP

RAPID ASSESSMENT FORM FOR AQUATIC HABITAT NON-REP

Project # _ / 60° Field Staff _ / 60° Date _ 7 / 63°	/2011
	20
Time 4:56	
of 2nd Conc.	
	DR
Conductiv	/ity (μS/cm)
Air Temperature (()
Maximum Pool De	epth(cm)
Mean Water Depth	n(cm)
	% Flat
stability	
Boulder	ClayCobble
Marl	SandDetritus
Boulder	ClayCobble
Marl	SandDetritus
Banks Deen Pool	Vascular Plants
ehris Boulder	
551.0	
ninant vegetation, matu	ire or eany successional)
/	
oundwater upwellings)	
	i la lanch
(g 1450	sy swale / pasto
servations, etc.	
DETAILED FROM TOWN AS A SHARE	
	Conductive Air Temperature (stability Maximum Pool De Mean Water Depting Run stability Boulder Marl Boulder Marl Banks Deep Pool Boulder Boulder Marl Interpretation, mature and stability Description of the proof Boulder Boul

Field Notes QA/QCed by _

Page _



RAPID ASSESSMENT FORM FOR AQUATIC HABITAT

westerr	Drainage
HABITAT	Drainage Db XWE

CL.		-
SU	ш	tec

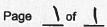
Project Amhers + Wound Station # Photos Taken GPS Coordinates Descriptive Location South of and Conc	Project # 160960595 Field Staff LE + RP Date May 19 acm Time 11. as
Water Quality Dissolved Oxygen (mg/L) 7.78 pH_ Water Temperature (°C) 17.77 Weather conditions in previous 24 hrs	7.77 Conductivity (µS/cm) 198 Air Temperature (°C) 17°
Watercourse Dimensions & Morphology Mean Watercourse Width(m) Mean Bankfull Width(m) % Riffle% Pool Evidence of eroding banks, Comments on bank sta	Maximum Pool Depth(cm) Mean Water Depth(cm)% Run% Flat ability
Substrate – Upstream (% cover) BedrockSiltMuckGravel	BoulderClayCobbleSandDetritus
Substrate - Downstream (% cover) BedrockSilt MuckGravel	BoulderClayCobbleSandDetritus
In-water Cover Cover Types Present (circle): Overhanging Vegetation Undereut Bar Woody Debri	
Riparian Zone Riparian Cover (% of watercourse shaded, domina Upstream	ant vagetation, mature or early successional)
Adjacent Land Use Upstream Downstream	
Fish Habitat Potential Critical Habitat spawning or nursery areas, ground Upstream	dwater upwellings)
Downstream	
Note any fish observations	
Other Habitat Notes, Incidental Wildlife Observed And Nav Cook Hards Alax Cook	ations, etc.



western brainage

RAPID ASSESSMENT FORM FOR AQUATIC HABITAT	1
Stantec	C
Project Am Wist Stand Station # Project # 1009120595 Field Staff KE & RP Date May 17 GPS Coordinates Descriptive Location As May 17 Bull Bull Bull Bull Bull Bull Bull Bul	
Water Quality Dissolved Oxygen (mg/L) 10.42 pH 7.94 Conductivity (µS/cm) 191 Water Temperature (°C) 14.7 Air Temperature (°C) 4.7 Air Temperature (°C)	
Watercourse Dimensions & Morphology Mean Watercourse Width (m) Maximum Pool Depth (cm) Mean Bankfull Width (m) Mean Water Depth (30 (cm) % Riffle % Pool % Run 100 % Flat Evidence of eroding banks, Comments on bank stability	
Substrate - Upstream (% cover) Bedrock 70 Silt Boulder Clay Cobble Muck Gravel Marl Sand 30 Detritus	
Substrate - Downstream (% cover) Let Cond Bedrock Silt Boulder Clay Cobble Muck Gravel Mari Sand Detritus	1
n-water Cover Cover Types Present (circle): Undercut Banks Deep Pool Vaccutar Plants Overhanging Vegetation Woody Debris Boulder Other	
Riparian Zone Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional) Upstream 30 / o shaded eds of mack Downstream 0 / o Adjacent Land Use Upstream Downstream Downstrea	
Fish Habitat Potential Critical Habitat (spawning or nursery areas, groundwater upwellings) Upstream Downstream	
Upstream no his captived, possible baner als of rocal Downstream	13
Note any fish observations 10 capture	
Other Habitat Notes, Incidental Wildlife Observations, etc. paraus channel Manders Wough pastne us et A	+

_	na	Mus	channe	1 Mander	Through	pastine	uls	of Ar	- McGi
_	dis	flow!	s into	l mandes vetland	8				





Stantec Consulting Ltd - Electrofishing Record and Catch Results

Project Numb	per HWWWST	Sands	Station	Number (6)			
Project Name	160960	595K	Pass I	Pass No. (if applicable)			
Project mana			Date (yyyymmdd): M	4172011		
Descriptive Lo	ocation Art Mu	CSina Rd					
UTM coordina	ates	easting		nort	hing zone		
Fishing Metho	od (circle one):	Backpack	Boat	Unit Model/Make			
Sampling Met	thod (circle one):	even rabita	> tra	ansect spot			
Effort (Electro	ofishing Seconds): 13	2 Number of	Netters:	Number	of Anodes:		
Settings Frequency (H	z) <u>75 </u>	Itage (volts) <u>400</u>	Current (Amps)	Power (V	Vatts)		
Station Inform	mation						
Length of Stre	eam Surveyed (m)	10					
Station Chara		The second secon	-3	Average: 1.5			
	Dep	pth (m): Range 🍒	30-60	Average: 40			
Temperatu	re (°C) 14.7 pH 7.94			ctivity (uS/cm) Dxygen (mg/L)	91		
Catch Data	ga California California						
Catch Data Species	Number of Fish	wister	Species	Number of Fish			
	Number of Fish		Species	Number of Fish			
	Number of Fish		Species	Number of Fish			
	Number of Fish		Species	Number of Fish			
	Number of Fish	$\Delta 0$	Species	Number of Fish			
	Number of Fish	Λ0	Species COV	Number of Fish			
	Number of Fish	Λ0	Species COV	Number of Fish			
	Number of Fish	Λ0	Species COV	Number of Fish			
	Number of Fish	Λ0	Species COV	Number of Fish			
	Number of Fish	Λ0	Species	Number of Fish			
	Number of Fish	Λ0	Species	Number of Fish			
	Number of Fish	10	Species	Number of Fish			
	Number of Fish	(10)	Species	Number of Fish			
Species		Λ0	Species	Number of Fish			
Species	Number of Fish ments on Separate Sheet?	(10) (S)	Species	Number of Fish Notes By:			

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1	
1116	
1000	

RAPID ASSESSMENT FORM FOR AQUATIC HABITAT

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1)NB
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	(0,0)
Stantec	XW
Project 4 AS Station # AS	Project # 1409100595 Field Staff KE TRP
Photos Taken V	Date May 19 2011
GPS Coordinates	Time II alm
Descriptive Location 2nd Conc Rd,	400 in west of Enerald
Water Quality	
Dissolved Oxygen (mg/L) 9.85 pH_	X.O Conductivity (μS/cm) ASS Air Temperature (°C) 17°
Water Temperature (°C) 17.78 Weather conditions in previous 24 hrs 70.10	Air Temperature (°C)
Watercourse Dimensions & Morphology	Maximum Pool Depth 40 (cm)
Mean Watercourse Width (m) Mean Bankfull Width (m)	Maximum Pool Depth (cm) Mean Water Depth (cm)
% Riffle 20 % Pool	% Flat
Evidence of eroding banks, Comments on bank sta	
veg, slightly tramp	ed due to cous.
Substrate – Upstream (% cover)	
	_BoulderCobble
MuckGravel	SandDetritus
Substrate - Downstream (% cover)	
Bedrock	_BoulderCobble
MuckOGravel	SandDetritus
In-water Cover	
Cover Types Present (circle): Undercut Ban	iks Deep Pool Vascular Plants
Overhanging Vegetation Woody Debris	Boulder Other
Riparian Zone	
Riparian Cover (% of watercourse shaded, domina	nt vegetation, mature or early successional)
Upstream 30% Shrubs +	re Po
Downstream 10 %	
Adjacent Land Use Upstream	
Downstream	
Fish Habitat Potential Critical Habitat (spawning or nursery areas, ground	twater upwellings)
Upstream OOAA Alexander	iwater upweimigs)
Downstream 110110 UUSA VEGA	
Migratory Obstructions (seasonal, permanent)	
Upstream Seasonal	
Note any fish observations 1000	Md to little water
to his	THE HATE WAY
Other United Nation Incidental Wildlife Observed	
Other Habitat Notes, Incidental Wildlife Observa	pears to be xwB, nodefined
channel grown loil	lune erea
-dls- 50m is a ina defend	channel & pool @ certvert
is a wo, allived	
	QA/QCed by Page of
- byung Sum XUB - co	w patere, no defined chann



Western brainage 54 NWB

Station # 54		Project Name A	whoat 1x	had
Watercourse Name		Project # \(\(\rho_10^2\)	1100595	NANVA.
Photos III s II (2)		Field Staff	- 811	
Photos 46-49 Date Aug 15 2017		Time 12115	Da A	
March or conditions in provious 24	bee	11110 1011		
Weather conditions in previous 24 GPS Coordinates (Zone) 18 1	III8 2 C 8	V O EZ	4088001	Dotum
			-1000000	Datum
Descriptive Location				
Water Quality	1	1 dM		
Dissolved Oxygen (mg/L)	Э Н	Conductiv	rity (µS/cm)	
Water Temperature (°C)		Air Temperature (c) Table 1	
Time in situ measurements taken_				NEAST VERSE (1911年)
Watercourse Dimensions & Mor	phology			
Mean Watercourse Width	(m)	Maximum Pool De	pth	(cm)
Mean Bankfull Width	(m)	Mean Water Depth		(CM)
Mean Watercourse Width Mean Bankfull Width	% P	ool		% Fla
Evidence of eroding banks, Comm	ents on bank	stability		
Substrate (% cover)				
Redrock	Cobble	Sand	Silt	Muck
Boulder	CODDIG	Sand Clay	Mart	Detritus
Riparian Zone Riparian Cover (% of watercourse	shaded, domi	nant vegetation, matu	re or early succe	ssional)
Adjacent Land Use / Porest				
Fish Habitat Potential Critical Habitat (spawning or nurse	ery areas, grou	indwater upwellings)		
Migratory Obstructions (seasonal,	permanent)			
Note any fish observations				
Waterbody Notes Natural Watercourse Trap	ezoidal Chan	nel Grasse	1 Swale	Buried Tile
Surficial Drainage (i.e. furrows)	Dugout P	ond Dominate	d by Aquatic Veg	Dry V
Other Habitat Notes, Incidental	Wildlife Obse	rvations, etc.	- a WB	
Field Notes Authored by	Field No	otes QA/QCed by		



RAPID ASSESSMENT FORM FOR AQUATIC HABITAT (27) W

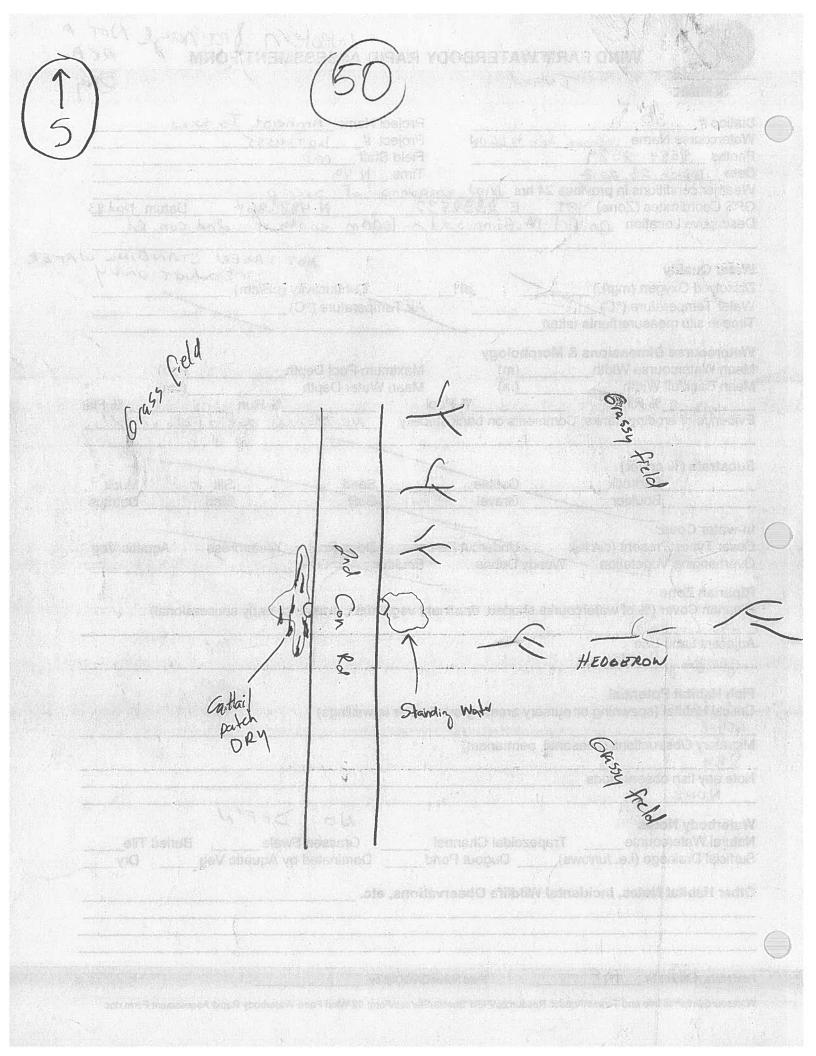
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Cha	mbor	
314	TUE	

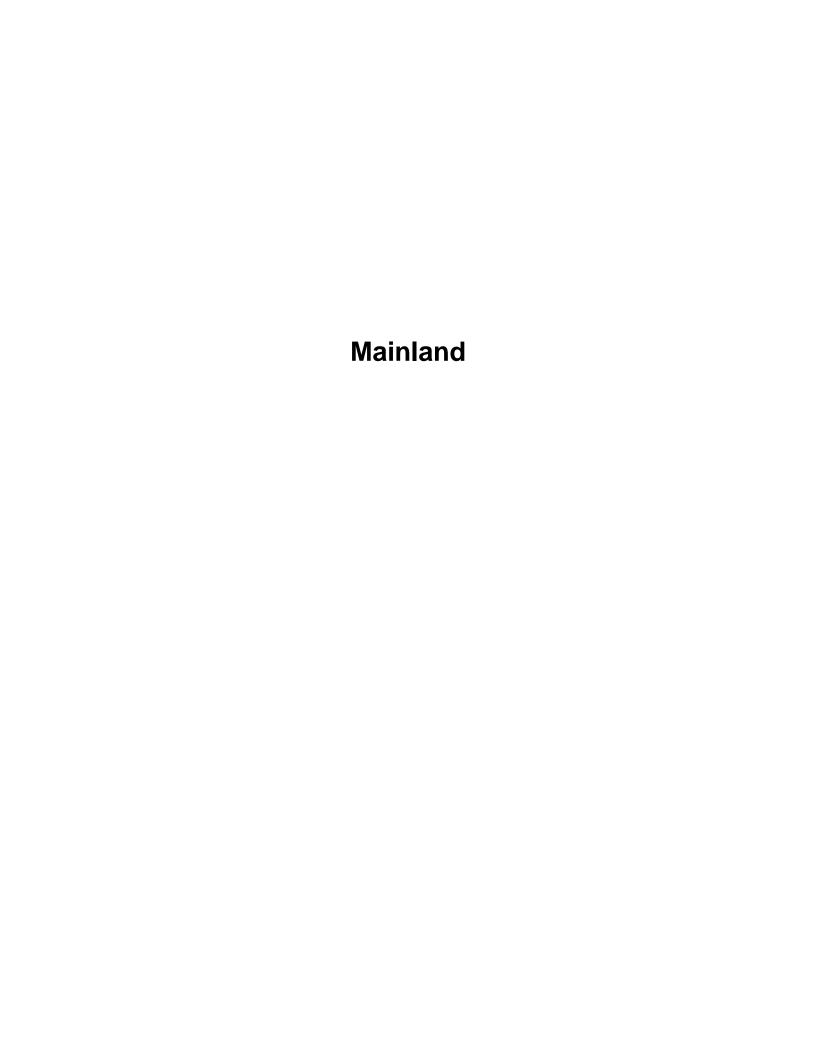
Station #Photos Taken	Project # 160960595 Field Staff CE + RP Date Man 19 2011 Time 18:30 Rol 750 m South of
Water Quality Dissolved Oxygen (mg/L) 5 pH 7. Water Temperature (°C) 19.38 Weather conditions in previous 24 hrs 0001	74 Conductivity (µS/cm) 128 Air Temperature (°C) 20
	Maximum Pool Depth 50 (cm) Mean Water Depth 30 (cm) % Run 100 % Flat ility
	Boulder 30 Clay Cobble Marl Sand 10 Detritus
AND THE PROPERTY OF THE PROPER	Boulder 30 Clay Cobble Marl Sand (D Detritus
In-water Cover Cover Types Present (circle): Undercut Banks Overhanging Vegetation Woody Debris	Deep Pool Vascular Plants Boulder Other
Riparian Zone Riparian Cover (% of watercourse shaded, dominant Upstream Downstream Adjacent Land Use Upstream Downstream Downstream	vegetation, mature or early successional)
Fish Habitat Potential Critical Habitat (spawning or nursery areas, groundw Upstream Downstream Migratory Obstructions (seasonal, permanent) Upstream Downstream Downstream Note any fish observations	ed, fished a reach
Other Habitat Notes, Incidental Wildlife Observat - shallow channel flowing - lefs of RCG - from South in large wer	Hard/swamp
Field Notes Authored by KE Field Notes Q	A/QCed by Page of



WIND FARM WATERBODY RAPID ASSESSMENT FORM READER

Station # 50	Project Name Amherst 15 Wind
Watercourse Name unknown this to Lk. ON	Project # 110960595
Photos <u>8584-8589</u>	Field Staff MF
Date March 28, 2012	Time 11:48
Weather conditions in previous 24 hrs Mod. a	
GPS Coordinates (Zone) 18T E 03595	537 N 4886864 Datum No.183
Descriptive Location 1) A Art Mice Anis Y	Rd ~ 1000m south of 2nd con Rd
	NAT TAKEN STANDING W
Water Quality	NOT TAKEN. STANDING ω @ CULVUT ONLY Air Temperature (°C)
Dissolved Oxygen (mg/L) pH_	Conductivity (μS/cm)/
Water Temperature (°C)	Air Femperature (°C)
Time in situ measurements taken	
Watercourse Dimensions & Morphology	
Mean Watercourse Width (m)	Maximum Pool Depth (cm)
Mean Bankfull Width (m)	Mean Water Depth (cm)
% Riffle% P	ool % Run % Flat
Evidence of eroding banks, Comments on bank s	stability No dannel defin u/s or d/s
Substrate (% cover)	
Bedrock Cobble	Sand Silt Muck
Boulder Gravel	<u> </u>
Riparian Zone Riparian Cover (% of watercourse shaded, domin 2% (callala)	nant vegetation, mature or early successional)
Adjacent Land Use	
grazios fields	
Fish Habitat Potential Critical Habitat (spawning or nursery areas, grou	ndwater upwellings)
NONE	
Migratory Obstructions (seasonal, permanent) ∑ ೬੫	
Note any fish observations	
None	
Wotorhocks Nation	NO DEF'N
Waterbody Notes	
Natural Watercourse Trapezoidal Chann	el Grassed Swale Buried Tile
Surficial Drainage (i.e. furrows) Dugout Po	ond Dominated by Aquatic Veg Dry
Other Habitat Notes, Incidental Wildlife Obser	rvations, etc.
Field Notes Authored by MF Field Not	tes QA/QCed by





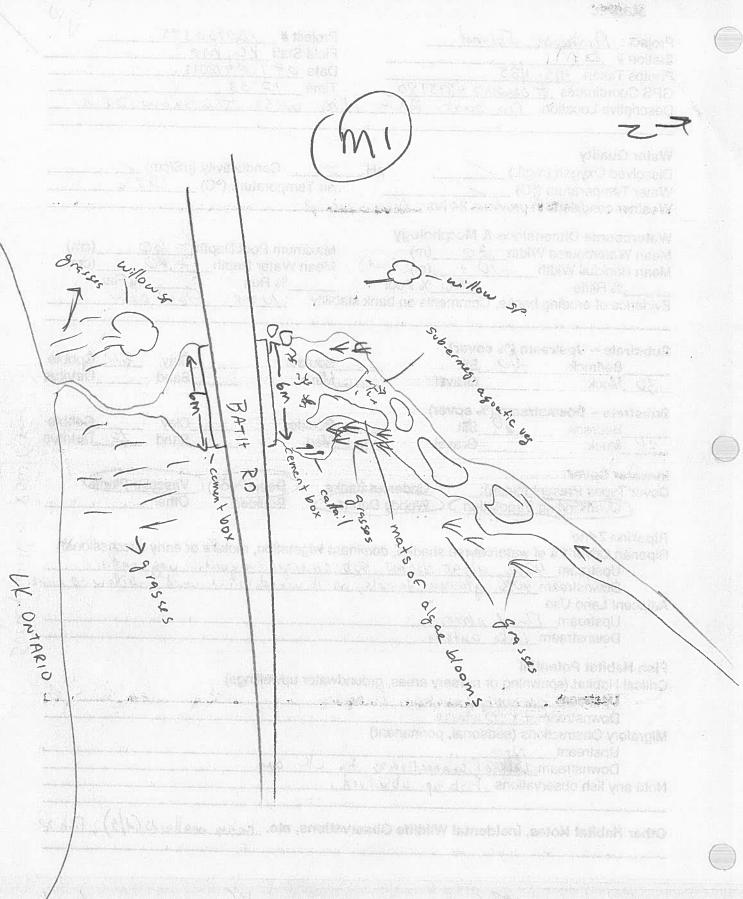


RAPID ASSESSMENT FORM FOR AQUATIC HABITAT PERMOODS

Stantec

Project: Amherst Island	Project #
Station # & MI	Field Staff KC, MF
Photos Taken 419 - 425	Date 07/06/2011
GPS Coordinates 18T 0362197 4895780	Time /2:33
Descriptive Location On bath Rd -	~ IKM West Jin Snow Drive.
	7.0
Water Quality	
Dissolved Oxygen (mg/L) P	pH Conductivity (μS/cm)
Water Temperature (°C)	Air Temperature (°C) 29°C
Weather conditions in previous 24 hrs/\u00edia	or precip.
Watercourse Dimensions & Morphology	
Mean Watercourse Width 20 (m)	Maximum Pool Depth 465 (cm)
Mean Bankfull Width ~ 10 + (m) (Fig.	Mean Water Depth (cm)
% Rittle 100 % P001	70 Fluit
Evidence of eroding banks, Comments on ba	ank stability Nove - F1000 plane
Substrate – Upstream (% cover) Bedrock <u>40</u> Silt	Boulder Clay 30 Cobble
	Marl Sand Detritus
Substrate - Downstream (% cover)	Boulder ClayCobble
Bedrock 60 Silt	
20 Muck Gravel	MarlSand/O_Detritus
In-water Cover	
	ut Banks Deep Pool Vascular Plants
Overhanging Vegetation Woody	Debris Boulder Other
The Book Same was the Bell State of the Same Sta	
Riparian Zone	lominant vegetation, mature or early successional)
Hiparian Cover (% of watercourse shaded, d	lominant vegetation, mature or early successional) 1. 50 b emergen + aquatic ves cattail els, milkweed, with weed, willow 50, this
Downstream 40% - 214545 Jegs	els milk weed wine weed willow so, his
Upstream Flood plain	
Downstream Lake butwie	
Fish Habitat Potential	aroundwater unwellings)
Critical Habitat (spawning or nursery areas, g	Furanta approximage
Upstream Spawning, nulsenn, f Downstream Lk Ontaio	
Migratory Obstructions (seasonal, permanen	11)
Upstream /Von	
Downstream Lask of iconnections	is to LK. ON.
Note any fish observations Fish so obse	
Note any han observations	
Other Habitat Notes, Incidental Wildlife O	pservations, etc. haby mallard (4/5) fish 20
	Y(

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RAPID AS

	Mainland Property of Assertion Mainland	0
SESSMENT FO	ORM FOR AQUATIC HABITAT OF STATES	5,
		/
		Alle.
	Project # 160960595 Project # 160960595	3/1
	Date 07 / 06 /2011	
962 4895822	Time 12:07	
n west of	Jim Snow Dr on Bath Rd	

Project: Amherst Island	Project # 160960595
Station # Bam 2	Field Staff KC, MF
Photos Taken 412 - 418	Date 07 / 06 /2011
GPS Coordinates 18T 0362962 4895822	Time 12:07
Descriptive Location 150 m west of	Jim Snow Dr on Bath Rd
Water Quality Dissolved Oxygen (mg/L) pH	Conductivity (µS/cm)
	The state of the s
Water Temperature (°C)	Air Temperature (°C) 28°C
Weather conditions in previous 24 hrs	amounts of preeip.
Watercourse Dimensions & Morphology	
Mean Watercourse Width (m)	Maximum Pool Depth(cm)
Mean Bankfull Width /.5 (m)	Mean Water Depth(cm)
% Riffle % Pool	% Run% Flat
Evidence of eroding banks, Comments on bank st	ability <u>none</u> , well vegted
Substrate - Upstream (% cover)	
Bedrock <u>40</u> Silt	Boulder Clay /D Cobble
20 Muck Gravel	Marl /O Sand /O Detritus
Substrate - Downstream (% cover)	Boulder ClayCobble Lat
Bedrock Silt	
MuckGravel	MarlSandDetritus / On
In-water Cover Cover Types Present (circle): Overnanging Vegetation Undercut Bar Woody Debri	그는 그리는 그리는 이 그리는
Riparian Zone	
Riparian Cover (% of watercourse shaded, domina	ant vegetation, mature or early successional)
Upstream 10%, cattail, acc	45)()
Downstream Lake Ontario	TR
Adjacent Land Use Upstream Energy facility, ma	niculed crass
Downstream Lake Ontain	
Downstream Lane Official	
Fish Habitat Potential	
Critical Habitat (spawning or nursery areas, groun	dwater upwellings)
Upstream spanny	
Downstream Lake Entario	
Migratory Obstructions (seasonal, permanent)	
Upstream Lack of water	
Downstream	
Note any fish observations None - Dry	
Other Habitat Notes, Incidental Wildlife Observ	vations, etc. Dead snake. Too
old mangled to id of to take pictures	
INTERMITENT I DRY	
Field Notes Authored by Field Note	es QA/QCed by Page of

-AKE

DNAARIO

BATH



RAPID ASSESSMENT FORM FOR AQUATIC HABITAT

Stantec

Field Notes Authored by ______

Station # 83 M3	Field Staff ICC,		
	Date 07/06	/2011	- DAMAGE
Photos Taken <u>#26 - 43/</u>	Time 12:56	NIX OF THE REAL PROPERTY.	
GPS Coordinates <u>6362869 489668</u> Descriptive Location <u>50 50 4h</u> of	Taylor Kidd BI	'vd - 900 N	1 north
Bath Rd U/S section of R			
Water Quality			
Dissolved Oxygen (mg/L) pl	H Conducti	vity (μS/cm)	
Water Temperature (°C)	Air Temperature (°C) 29°c	
Weather conditions in previous 24 hrs	r precip last nigh		
Watercourse Dimensions & Morphology			
Mean Watercourse Width(m)	Maximum Pool D		(cm)
	Mean Water Dept	h	(cm)
% Riffle% Pool	% Run	% F	-1at /
Evidence of eroding banks, Comments on ban	nk stability 10010-	well vegt d	
Out Australia Hastmann (9/ 2010t)			
Substrate – Upstream (% cover) Bedrock Silt	Boulder	Clay	Cobbl
Bedrock Silt Gravel	Boulder	Sand	Detrit
		i 18 14 10	
Substrate - Downstream (% cover)		Clou	Cobb
Bedrock Silt Gravel	Boulder	Clay Sand	Detrit
MuckGravel	Marl	Sariu	Detine
In-water Cover		I. Massidan F	losto
Cover Types Present (circle): Undercut			ianis
Overhanging Vegetation Woody D	Debris Boulder	Other	
Riparian Zone		we or oarly suc	oocsional)
Riparian Cover (% of watercourse shaded, do	minant vegetation, mail	ure or early such	Jessiuliai,
Upstream teccestrial weadows	SP (CATTAIL		
Downstream " herectrial meador	w sp.		
Adjacent Land Use			
Upstream Woodlot			
Downstream Power property.	najpangan santus Mangrapangan dan dan dan dan dan dan dan dan	The annual of the second	40.48
Fish Habitat Potential			
Critical Habitat (spawning or nursery areas, gr	roundwater upwellings)		
Upstream no water Dru			
Downstream No water Orn			
Migratory Obstructions (seasonal, permanent)			
Upstream no water			mar nin A
Downstream no water			
Note any fish observations No.			
140to dily ficili obcorrationo			
Other Habitat Notes, Incidental Wildlife Ob	convetions ato		
	iservations, etc.		

Field Notes QA/QCed by _



ACUST WIND TO STATE OF THE STAT and the exchange of the effective continues. ascaro emperino. Contradica Jim Snow Drite のけか plactic colucr Girl and Habitat (constitute of enterty aroust, growneds) taids Williams



WIND FARM WATERBODY RAPID ASSESSMENT FORM NOT A REAL PROPERTY TO THE PROPERTY AND THE PROPE main land

Station# 3 M4	Project Name Anherst Is Wind
Watercourse Name unknow trib of LK.ON	Project # 160960595
Photos 9570 - 9974	Field Staff MF
Date March 27, 2012	Time 13:19
Weather conditions in previous 24 hrs No pro	cip.
GPS Coordinates (Zone) 18T E 0.3.6.23	389 N 4896905 Datum Nod 83
Descriptive Location 25 m south of B.	nborday building + 4 30m east of
Bomberdier drimming with 18 Row (Taylor Kidd Bird)
Water Quality Dissolved Oxygen (mg/L) /0, Water Temperature (°C) 9.04 Time in situ measurements taken //@ '/O	Air Temperature (°C) 5
Watercourse Dimensions & Morphology Mean Watercourse Width 0.3 (m) Mean Bankfull Width 0.75 (m)	Maximum Pool Depth <u>\$</u> (cm) Mean Water Depth <u>5</u> (cm) Wean Water Depth <u>700</u> % Flat
Evidence of eroding banks, Comments on bank sta	hose draining water from under ground
Substrate (% cover)	Ŭ
Bedrock Cobble	Sand 35 # Silt 20 Muck
Boulder Gravel 5	Clay 25 Marl 20 Detritus
Cover Types Present (circle): Undercut Ban Overhanging Vegetation Woody Debris Riparian Zone Riparian Cover (% of watercourse shaded, domina	Boulder Other
Bombarder buildings, Tayl	or kidd blud.
Fish Habitat Potential Critical Habitat (spawning or nursery areas, ground	water upwellings)
Migratory Obstructions (seasonal, permanent) intermitent no connection Note any fish observations	Is areas.
Waterbody Notes Natural Watercourse Trapezoidal Channel Surficial Drainage (i.e. furrows)	Dominated by Aquatic Veg Dry
Other Habitat Notes, Incidental Wildlife Observa	cle of Taylor Kidd Blud.
Field Notes Authored by Field Notes	QA/QCed by

12 (pr 60 SHEET TO SHEET Theory ago of Miles Holl Flows comming out of property
ground on Bomb. property BOMBARDICR DRIVEWAY KIDD TAYLOR Cattai) prick catto: DEIVE WM BUILDING

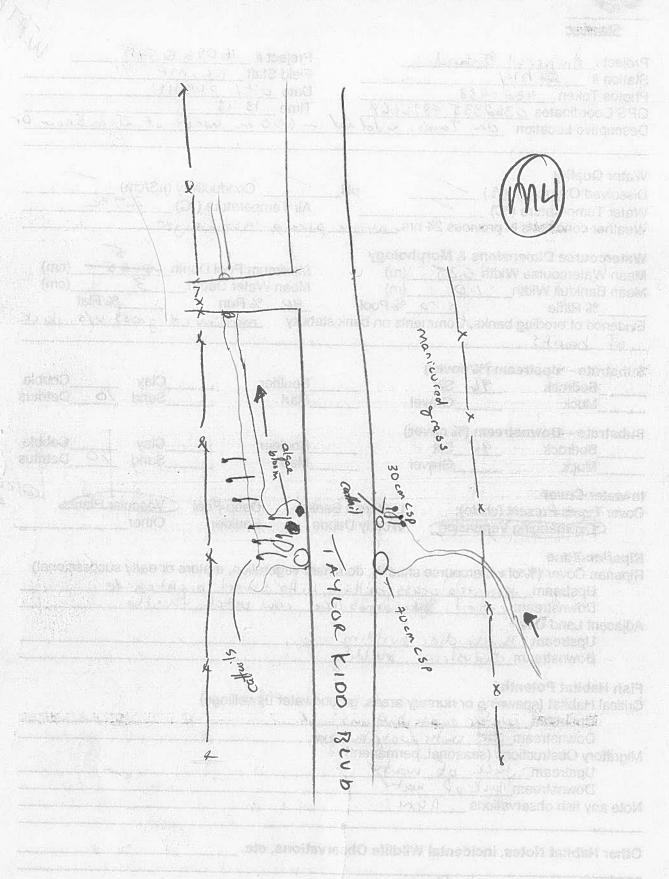


RAPID ASSESSMENT FORM FOR AQUATIC HABITAT PROPERTY TO THE STATE OF THE

Stantec

Project: Amherst Island	Project # 16096 8599
Station # PM4	Field Staff KC, MF
Photos Taken 432-438	Date <u>67/06/2011</u>
GPS Coordinates <u>0362335 4896664</u>	Time 13:13 ~ 600 m west of Jim Snow Dr
Descriptive Location ON Touglo 1 Kidd Rd	west of Jimshow el
Water Quality	
Dissolved Oxygen (mg/L) pH	Conductivity (μS/cm)
Water Temperature (°C)	Air Temperature (°C) 29°C
Weather conditions in previous 24 hrsAATO BY	
Watercourse Dimensions & Morphology	5 (cm)
Mean Watercourse Width <u>0.25</u> (m)	Maximum Pool Depth (cm)
	Mean Water Depth 3 (cm)
% Riffle	
Evidence of eroding banks, Comments on banks	Manicolea grass of state
Substrate - Upstream (% cover)	O. bbla
Bedrock 90 Silt	BoulderClayCobbleSand /O Detritus
MuckGravel	MarlSand _/ODetritus
Substrate – Downstream (% cover)	Boulder ClayCobble
Bedrock <u>90</u> Silt	Marl Sand /O Detritus
MuckGravel	
In-water Cover	anks Deep Pool Vascular Plants
Cover Types Present (circle): Undercut B	add 10 12 12 12 12 12 12 12 12 12 12 12 12 12
Overhanging Vegetation Woody Deb	ons Boulder Curer
Riparian Zone	
Riparian Cover (% of watercourse shaded, domin	nant vegetation, mature or early successional)
Upstream <u>terrestrial grass</u> , ca ffail Downstream <u>cattail</u> ; witch annes la	hiter sweet nichtshade
Downstream Cattail , wilcon annes 15	ce cow veren, thiste.
Adjacent Land Use	
Upstream Bombardice building Downstream Todustrial building	
Fish Habitat Potential	11
Critical Habitat (spawning or nursery areas, ground	indwater upweilings)
Upstream water contributions	
Downstream to water contribution	196
Migratory Obstructions (seasonal, permanent)	
Upstream lack of water Downstream lack of water	
Note any fish observations 10 M	
Note any lish observations	
Other Habitat Notes, Incidental Wildlife Obse	rvations, etc.
mina (Plows	
minor Plows	
1. KU	THE STATE OF THE PROPERTY OF T
Field Notes Authored by Field No	otes QA/QCed by Page of

TATIGAN DITABOA ROSANDIT TURABBRICA DISAR



May 1

Freigh Medica Authorisid by



Field Notes Authored by ___

RAPID ASSESSMENT FORM FOR AQUATIC HABITAT

		_ 100
Project: Amherst Island	Project # 160960	595
Station # B MC	Field Staff KC, M	
Photos Taken 439- 446	Date 07 / 06 /201	1 - 2
GPS Coordinates 036/95/ 4896498	Time 13:28	6
Descriptive Location on Taylor Kida	Blud m 1.5 Km	vest ot
Jim Show Drive.		11 表語
Water Quality		0/200
	pH Conductivity	μS/cm)
Water Temperature (°C)	Air Temperature (°C)	010
Weather conditions in previous 24 hrs	for precipilast hight	
Watercourse Dimensions & Morphology	Marriague Daol Dooth	(cm)
Mean Watercourse Width (m)	Maximum Pool Depth	The second secon
Mean Bankfull Width (m)	Mean Water Depth % Run	% Flat
% Riffle% Pool Evidence of eroding banks, Comments on b		d - lack of del
Evidence of eroding banks, comments on b	arik stability <u>BOCK V 81</u>	
Substrate - Upstream (% cover)		
Bedrock Silt	Boulder	ClayCobble
Muck Gravel	Mari	SandDetritu
		/
Substrate – Downstream (% cover) Bedrock 30 Silt	Boulder	ClayCobble
Bedrock 30 Silt Gravel	Mari	Sand 40 Detritu
JO WILCH		
In-water Cover		Maria Diame
		Vaccillar Plante
Cover Types Present (circle): Under		Vascular Plants
	Debris Boulder	Other
Overhanging Vegetation Woody	Debris Boulder	Other
Overhanging Vegetation Woody Riparian Zone Riparian Zone	Debris Boulder	Other r early successional)
Overhanging Vegetation Woody Riparian Zone Riparian Zone	Debris Boulder	Other r early successional)
Overhanging Vegetation Woody Riparian Zone Riparian Zone	Debris Boulder	Other r early successional)
Overhanging Vegetation Woody Riparian Zone Riparian Cover (% of watercourse shaded, of Upstream +c/(cst cid/ Ue) Downstream Cattail, Noll 105h Adjacent Land Use	Debris Boulder dominant vegetation, mature of a four a with may	Other r early successional)
Overhanging Vegetation Woody Riparian Zone Riparian Cover (% of watercourse shaded, of Upstream +c/(cst cid/ Ue) Downstream Catail, Nolly 05h	Debris Boulder dominant vegetation, mature of a four a with may	Other r early successional)
Overhanging Vegetation Woody Riparian Zone Riparian Cover (% of watercourse shaded, of Upstream +c/(cst cid/ Ue) Downstream Cattail, Noll 105h Adjacent Land Use	Debris Boulder dominant vegetation, mature of a vowing with machine	Other r early successional)
Overhanging Vegetation Woody Riparian Zone Riparian Cover (% of watercourse shaded, of Upstream	Debris Boulder dominant vegetation, mature of a rowing with men	Other
Overhanging Vegetation Woody Riparian Zone Riparian Cover (% of watercourse shaded, of Upstream	Debris Boulder dominant vegetation, mature of a rowing with men	Other r early successional)
Overhanging Vegetation Woody Riparian Zone Riparian Cover (% of watercourse shaded, of Upstream	Debris Boulder dominant vegetation, mature of a rowing with men	Other
Overhanging Vegetation Woody Riparian Zone Riparian Cover (% of watercourse shaded, of Upstream	Debris Boulder dominant vegetation, mature of a family with me and a wi	Other
Overhanging Vegetation Woody Riparian Zone Riparian Cover (% of watercourse shaded, of Upstream	Debris Boulder dominant vegetation, mature of growing with me groundwater upwellings) nt)	Other
Overhanging Vegetation Woody Riparian Zone Riparian Cover (% of watercourse shaded, of Upstream	Debris Boulder dominant vegetation, mature of growing with me groundwater upwellings) nt)	Other
Overhanging Vegetation Woody Riparian Zone Riparian Cover (% of watercourse shaded, of Upstream for Cartail, Noll 105h Adjacent Land Use Upstream Bombondior plood of Plood	Debris Boulder dominant vegetation, mature of a four of with me groundwater upwellings) The performance of a four of the performance of the per	Other r early successional)
Overhanging Vegetation Woody Riparian Zone Riparian Cover (% of watercourse shaded, of Upstream	Debris Boulder dominant vegetation, mature of a four of with me groundwater upwellings) The performance of a four of the performance of the per	Other
Overhanging Vegetation Woody Riparian Zone Riparian Cover (% of watercourse shaded, of Upstream	Debris Boulder dominant vegetation, mature of growing with me groundwater upwellings) Thought and the periods of the period of the periods	Other r early successional)
Overhanging Vegetation Woody Riparian Zone Riparian Cover (% of watercourse shaded, of Upstream for Cartail, Noll 105h Adjacent Land Use Upstream Bombondior plood of Plood	Debris Boulder dominant vegetation, mature of growing with me groundwater upwellings) Thought and the periods of the period of the periods	Other r early successional)

GO DE TRANSPORTE (moles viviautoria) and as expression and observe subsidiar Evidence of eroding barries, Community on Scrib standing 1.0m CSP's - tem deep (pooled TAYLUR KIDD BLUD Charles of the Control of



WIND FARM WATERBODY RAPID ASSESSMENT FORM

mainLand

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-	The second second	D
		Property
THE RESIDENCE	The state of the s	
	V.	

Station # 2 MV	Project Name Amberst Ts. Wind
Watercourse Name unknown thin divon	Project # 160960595
Photos 8510 - 8519 (Joseph 9546 - 3553 (upper)	
Weather conditions in previous 24 hrs No acc	Time 10:40am Naly
GPS Coordinates (Zone) 18 T E 03630	
Descriptive Location On Coco accorded to	1 the us section of sto 2 east of
(aco coil tracks + - 200 m south of	Taylor Kidd Blyd.
Water Quality Dissolved Overson (mg/l) 10 9 3	122 2 1 11 12 KZ
Dissolved Oxygen (mg/L) /D.93 pH 9	$\frac{9.22}{1.22}$ Conductivity (µS/cm) $\frac{423}{1.12}$
Water Temperature (°C) 9.95 Time in situ measurements taken 15.15	Air Temperature (°C) 5°C W/
Time in situ measurements taken 15 115	$\mathcal{B}_{\mathcal{C}}$
Watercourse Dimensions & Morphology	
Mean Watercourse Width 2.0 (m)	Maximum Pool Depth 20 (cm) Possi t
Mean Bankfull Width 2.3 (m) % Riffle 50 % Poo	Mean Water Depth /o (cm)
% Riffle% Poo	N Run <u>50</u> % Flat
but flows comments on bank sta	ability well vegt'd. Not much of a bank
but flows evident through minor	OCACITA ON .
Substrate (% cover)	
BedrockCobble	
Boulder Gravel	Clay 10 Mari 10 Detritus
In-water Cover Cover Types Present (circle): Undercut Ban Overhanging Vegetation Woody Debris	ks Deep Pool Watercress Aquatic Veg Boulder Other
Riparian Cover (% of watercourse shaded, domina	nt vegetation, mature or early successional
60% mainly from a tail in ma	per and From ash stand in lower section
Adjacent Lang Use	
_ Coco paring Taylor Kidd Blue	d, company area
Fish Habitat Potential	
Critical Habitat (spawning or nursery areas, ground	
Migratory Obstructions (seasonal, permanent)	s of Jim Snow Orive due to no eccess
intermitent nature, shallow wat	w losals
Note any fish observations none	41 C-0 E-0 E-0 E-0 E-0 E-0 E-0 E-0 E-0 E-0 E
	Intermitent.
Waterbody Notes	
Natural Watercourse Trapezoidal Channel	Grassed Swale Buried Tile
Surficial Drainage (i.e. furrows) V Dugout Pone	Dominated by Aquatic Veg / Dry
Other Helder Aller I I I A Line in the	
Other Habitat Notes, incidental Wildlife Observa	ations, etc.
	ations, etc.
heard trog sp.	



WIND FARM WATERBODY RAPID ASSESSMENT FORM Mainland Intermited P.E.

Station # M 3	Project Name Ambust Wind
Watercourse Name 1) 4 (A DWY)	Project # 100150059 160960598
Photos 9554 - 9569	Field Staff M
Date March 27, 2012	Time 13:55
Weather conditions in previous 24 hrs No	ecio.
GPS Coordinates (Zone) 197 E 636325	3 N 4996767 Datum No. 183 6-
Descriptive Location Fast of main build	inus assoc W Corp Pavine
~ 400 m north of Bath Rd.	0
Water Quality Cower = 18T 03634	151 4896218) NOT AKE
Dissolved Oxygen (mg/L) 9.13 pH 2	3.55 Conductivity (µS/cm) 450 ND D/S
Water Temperature (°C) 10.05	Air Temperature (°C) 5°C
Time in situ measurements taken 14:45	7th Tomperature (c)
Evidence of eroding banks, Comments on bank sta	Maximum Pool Depth 20 (cm) Mean Water Depth /0 (cm) I /0 % Run 30 % Flat bility Heavy scasion to mid section.
exposed hedrock, Slymping in	mid section . Overland flower
Substrate (% cover)	
40 Bedrock 5 Cobble	5 Sand 15 Silt # Muck
Boulder 5 Gravel	Sand 15 Silt Muck Clay 20 Marl Detritus
in-water Cover Cover Types Present (circle): Undercut Ban Overhanging Vegetation Woody Debris Riparian Zone Riparian Cover (% of watercourse shaded, dominal D	water upwellings)
Waterbody Notes Natural Watercourse Trapezoidal Channel Surficial Drainage (i.e. furrows) Dugout Pone Other Habitat Notes, Incidental Wildlife Observa	
Field Notes Authored by Field Notes	QA/QCed by

W:\resource\Internal Info and Teams\Aquatic Resources\Field Sheets\Stantec\Form 02 Wind Farm Waterbody Rapid Assessment Form.doc

no defin cobble patches Heavi Bedievit ~ 600m grassy readow PANING 75 FENCE BATH RD

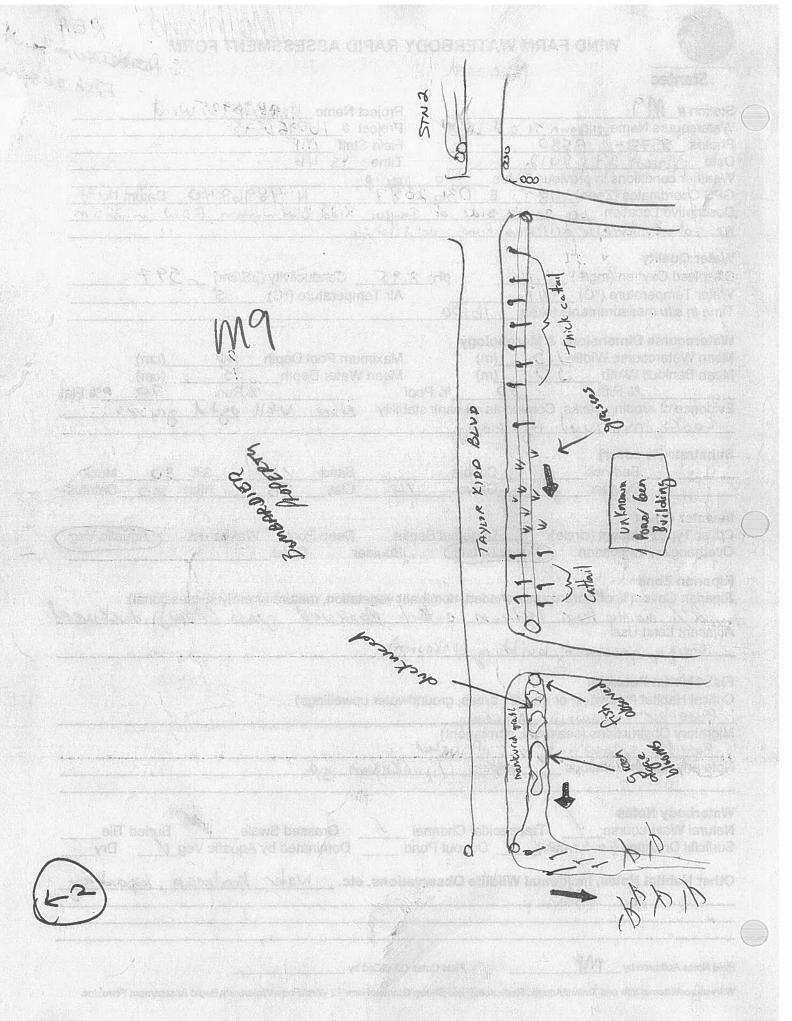


WIND FARM WATERBODY RAPID ASSESSMENT FORM

Main Land

Fish observ

Station # M9 Project Name Wankerst Isa Wind
Watercourse Name utlasun Trib of LK ON Project # 160960595
Photos 2573 - 9580 Field Staff MF
Date March 27, 2012 Time 15:46
Weather conditions in previous 24 hrs No accip.
GPS Coordinates (Zone) 187 E 036 2887 N 4896740 Datum Ned 83
Descriptive Location on south side of Tourior Kidd Blud within ROW - 225m
west of Bombardier driveway, Road side lifeh.
Water Quality Dissolved Oxygen (mg/L) // μ/ω pH 8,95 Conductivity (μS/cm) 597
Water Temperature (°C) //.// Air Temperature (°C) 5
Time in situ measurements taken /b 00
Watercourse Dimensions & Morphology Mean Watercourse Width 7.5 (m) Maximum Pool Depth 20 (cm) Mean Bankfull Width 3.0 (m) Mean Water Depth 15 (cm) % Riffle 30 % Pool % Run 75 % Flat Evidence of eroding banks, Comments on bank stability Nove Well 1917 a 20 565.
Looks manitured regularely.
Substrate (% cover)
BedrockCobbleSand/D Silt 3D Muck
Boulder Gravel // Clay 30 Mari 20 Detritus
Cover Types Present (circle): Undercut Banks Deep Pool Watercress Aquatic Veg Overhanging Vegetation Woody Debris Boulder Other Riparian Zone Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional)
_ d/ maily from instram catail Marity and aress (Row) duckweel
Adjace it Land USE
Energy generating building (unknown)
으로 가는데 말했다면 하나요. 지난 그 그리면 해서에서 아이들이 되는 것이 되는 때 그리고 나는 아니라 다른 사람들이 없는데 그리고 그리고 있다면 살아내는 것이다. 그리고 나는 사람들이 없다는데 사람
Fish Habitat Potential Critical Habitat (spawning or nursery areas, groundwater upwellings) Poseible spawning nursery.
Migratory Obstructions (seasonal, permanent) Possible intermitant lack of wall
Note any fish observations
The and the second seco
Waterbody Notes Natural Watercourse Trapezoidal Channel Grassed Swale Buried Tile Surficial Drainage (i.e. furrows) Dugout Pond Dominated by Aquatic Veg Dry
Other Habitat Notes, Incidental Wildlife Observations, etc. Water bootman, leapard Frog
Field Notes Authored by MF Field Notes QA/OCed by



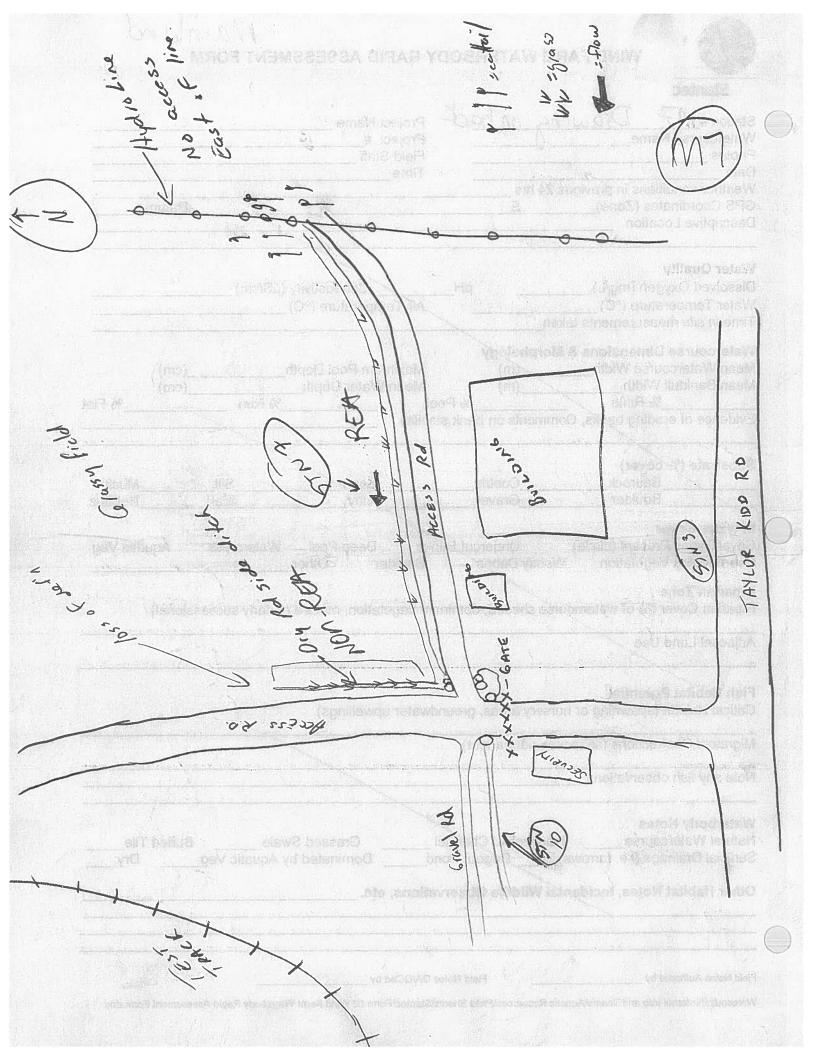


WIND FARM WATERBODY RAPID ASSESSMENT FORM

main Lound

Proper 7

Station # M 7-	Project Name Annust Island Wind
Watercourse Name Unknown	Project #
Photos 9520 9530	Field Staff MF
Date March 27, 2012	Time /1:40
Weather conditions in previous 24 hrs No	orcioitation.
GPS Coordinates (Zone) 14T E 0362	252 N 4897060 Datum Nod 83
Descriptive Location On Bomborater no	marty ~ 200m porth of Taylor
Kidd Blud and - 15m north of	main wilding. Rd side ditch on prop
Water Quality Dissolved Oxygen (mg/L) Water Temperature (°C) Time in situ measurements taken	Conductivity (µS/cm) Air Temperature (°C)
Watercourse Dimensions & Morphology Mean Watercourse Width 0,40 (m) Mean Bankfull Width 1,2 (m) % Riffle 30 % Po Evidence of eroding banks, Comments on bank s Minor undercuts throughout	Mean Water Depth 3.0 (cm) pol
Substrate (% cover)	
	00th 20 H 1
Bedrock Cobble Consol	Sand Silt 30 Muck
Boulder Gravel	70 Clay Marl Detritus
Cover Types Present (circle): Undercut Ba Overhanging Vegetation Woody Debris Riparian Zone Riparian Cover (% of watercourse shaded, domin	Boulder Other
2/0 minor pockets of	catail
Adjacent Land Use	
Bomburdier buildings test	track, Row powr lines.
Fish Habitat Potential Critical Habitat (spawning or nursery areas, groun	ndwater upwellings)
Migratory Obstructions (seasonal, permanent) Note any fish observations	dryness in summer
Waterbody Notes Natural Watercourse Trapezoidal Channe Surficial Drainage (i.e. furrows) Dugout Po Other Habitat Notes Incidental Wildlife Obser	nd Dominated by Aquatic Veg Dry
Other Habitat Notes, Incidental Wildlife Observ	/ations, etc.
Field Notes Authored by Field Note	es QA/QCed by





Field Notes Authored by _

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MIND FAD					Maurilan	nd
WIND FAR	M WATERBO		'ID ASSE	SSMENT	FORM	101
Stantec	Main Land					Noi
o #A						, sela
Station # M / D	SI CAU TAI				Is win	2 00
Watercourse Name <u>v nknow 7</u> Photos <u>9532 - 8540</u>	115 of CK . N		ct # <u>/60</u> Staff <u>M</u> .			#
Date March 27, 201	7		12:00			0
Weather conditions in previous		Precip.			/	
GPS Coordinates (Zone) 18て	E 0362	260	N	48970		atum Nad \$5
Descriptive Location On B	· mbordier p	ropert	4.0/5	section	connec	ted to.
Sto 7. ~ 30m west	- of buildin	195 +1	-150 m	north of	Taylor	Kidd Blud
Water Quality						
Dissolved Oxygen (mg/L)	pH_		Conduct	tivity (uS/cn	n) 100	olow
Water Temperature (°C)	<u> </u>	Air Te	mperature	(°C)		
Time in situ measurements take	en					
Watercourse Dimensions & M	fornhology					
Mean Watercourse Width 1.75		Mayin	num Pool D	enth - 4	, O (cr	~)
HERE IN MOUNT IN LEGIS IN LINE IN CONTROL OF THE PROPERTY OF	(m)	Mean	Water Dep	th ~ 2	0 (Cr	
	70 % F		Water Dep	% Ru		
Evidence of eroding banks, Cor			heavu		31/54	s through
Some sections			1	0		District Control of
Substrate (% cover)						
Bedrock	Cobble		Sand	CA	Silt	Muck
Boulder	Gravel	50	_Clay	20	_Siit Marl	NuckDetritus
In-water Cover	l land a seriel D			· OF	Som	
Cover Types Present (circle): Overhanging Vegetation W	oody Debris	Bould	er O	ther	rcress	Aquatic Veg
Riparian Zone		87				
Riparian Cover (% of watercour	se shaded, domi	nant vege	etation, mat	ure or early	succession	nal)
0/0						
Adjacent Land Use		1.00				
Bombardier buildings	property	rds.				
Fish Habitat Potential		. 1				
Critical Habitat (spawning or nu	rserv areas arou	ındwater	inwellings)			
possible round water	(nuclin !	but is	is ala	ed Roca	mas dif	for als
Migratory Obstructions (season	al, permanent)			1 DECO	MV3 CX()	1-2 4/3
lack of water levels.	heavy ear	sionen	+ distur	bance		
	None D					
				Ma		
			M. Commercial			
Waterbody Notes						
Waterbody Notes Natural Watercourse / Tr	apezoidal Chann	nel	Grasse	d Swale	Rur	ied Tile
Natural Watercourse / Tr	rapezoidal Chanr Dugout P	Account to the second	A STATE OF THE PARTY OF THE PAR	ed Swale ed by Aqua	THE PUBLICATION OF THE PERSON	ried Tile
	C. St. C. B. T. T. C. C. C. C. S. S. WILLIAM TO THE ALL CONTROL OF STREET	Account to the second	Dominat	ed by Aqua	Bur	
Natural Watercourse / Tr	Dugout P	ond	Dominat	CAR A CHARLES THE REST	THE PUBLICATION OF THE PERSON	
Natural Watercourse Tr Surficial Drainage (i.e. furrows)_	Dugout P	ond	Dominat	ed by Aqua	THE PUBLICATION OF THE PERSON	
Natural Watercourse Tr Surficial Drainage (i.e. furrows)_	Dugout P	ond	Dominat	ed by Aqua	THE PUBLICATION OF THE PERSON	

Field Notes QA/QCed by _

Mile 127, 132 bende a bragil accordable. Tiotes 9532 - 2540 STAR TELLASTION GIRL West for constitute in provious 24 ms an homography property als seeds or community " + " to middled to tosign (metally strength) C. C. Arthy M. Gest Locareth Vis. 1900 Mill 10 and allegate Conservation to STNIO Gravel Drivewen * = watveres 5 TAYLOR KIDD BLUD.



Mainlan

WIND FARM WATER	RBODY RAPID ASSESSMENT FORM	
Stantec		Not a Rox
Station # \ \\	Project Name Anherst Island	Water Box
Watercourse Name works	Project #_\60960595	
Photos	Field Staff Josh Marcell	
Date	Time 1800	· · · · · · · · · · · · · · · · · · ·
Weather conditions in previous 24 hrs	wind, worm, dry, no orecro.	
GPS Coordinates (Zone) \ST E ? (6)		tum
Descriptive Location Lacked on Co	idescriptions virgory was madely	2011
Tape-Kid Bld and E of J.	in Sow O.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Water Quality Dissolved Oxygen (mg/L) Water Temperature (°C) See 1	pH		Condu		S/cm) <u>7</u>	ila.	
Watercourse Dimensions & Mon Mean Watercourse Width — 8 Mean Bankfull Width % Riffle Evidence of eroding banks, Comm	rphology (m) (m) \% I	Mea Pool	imum Poo n Water D	epth	Run	(cm) (cm)	% Fla
Substrate (% cover) Bedrock Boulder	Cobble Gravel	/	Sand_ Clay	/	Silt_ Mart	Coolo	_Muck _Detritus
In-water Cover Cover Types Present (circle)	Undercut F	Ranks	Deen P	ool W	latercress	Agu	uatic Voc

Overhanging Vegetation Woody Debris **Boulder** Other Riparian Zone Riparian Cover (% of watercourse shaded, dominant vegetation, mature or early successional) Adjacent Land Use

Fish Habitat Potential Critical Habitat (spawning or nursery areas, groundwater upwellings)

Migratory Obstructions (seasonal, permanent) Note any fish observations

Waterbody Notes Natural Watercourse Trapezoidal Channel Grassed Swale_ **Buried Tile** Surficial Drainage (i.e. furrows) X Dugout Pond Dominated by Aquatic Veg.

Other Habitat Notes, Incidental Wildlife Observations, etc.

Field Notes Authored by Field Notes QA/QCed by

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